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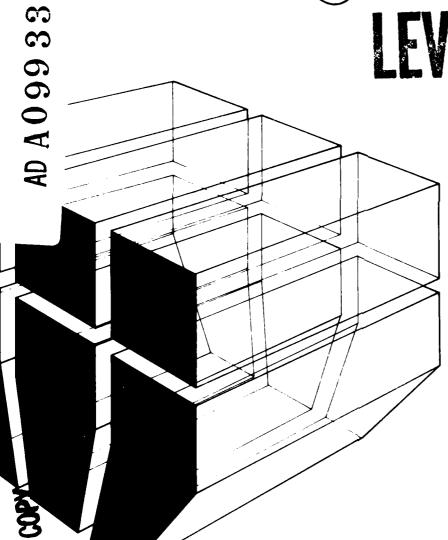


TECHNICAL REPORT N-98 March 1981

Refined and Validated Noise Contour System



BLAST NOISE PREDICTION VOLUME II & BNOISE 3.2 COMPUTER PROGRAM DESCRIPTION AND PROGRAM LISTING



by Lincoln L. Little Violet I. Pawlowska David L. Effland





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among the various data bases which have been developed to predict blast noise impact of Army facilities. From these studies, data bases and computational procedures which are used within the Blast Noise Prediction computer program (BNOISE 3.2) are developed.

User instructions and a system description for the Blast Noise Prediction computer program, BNOISE 3.2, are given in Volume II. Also included is the procedure for using the program to obtain a noise contour for a specific set of data; how subroutines are invoked in a modular fashion; a description of module functions; module calling procedure; algorithms used by the program; and a summary of error messages.

1

FOREWORD

This research was conducted for the Directorate of Military Programs, Office of the Chief of Engineers (OCE), under Project 4A76270A896, "Environmental Quality for Construction and Operation of Military Facilities"; Task A, "Environmental Impact Monitoring Management Assessment and Planning"; Work Unit 012, "Refined and Validated Noise Contour System." The QCR number is 3.01.006. Mr. F. P. Beck, DAEN-MPE-I, is the OCE Technical Monitor.

The work was performed by the Environmental Division (EN), U.S. Army Construction Engineering Research Laboratory (CERL). Dr. R. K. Jain is Chief of EN.

COL Louis J. Circeo is Commander and Director of CERL, and Dr. L. R. Shaffer is Technical Director.

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BLAST NOISE PREDICTION VOLUME II: BNOISE 3.2 COMPUTER PROGRAM DESCRIPTION AND PROGRAM LISTING

1 INTRODUCTION

Background

Over the past several years, the U.S. Army Construction Engineering Research Laboratory (CERL) has gathered data from various sources dealing with blast noise generation and propagation and has performed several sets of field exercises designed to further develop information regarding blast noise sources and the propagation of blast noise in the atmosphere. These CERL studies include measurements of the propagation of 735 five-pound charges set off at a central location at Fort Leonard Wood, MO. measurements at Fort Sill on the directivity pattern of all of the Army's major weapons, and small-scale studies at Fort Sill, OK and Fort Leonard Wood (Appendices A and B) designed to examine the weight relation between blast charge size and blast amplitude and duration. These studies were performed as a part of efforts aimed at developing approved methods of predicting the impact of blast noise at military installations. Data generated by these studies are used in the CERL-developed Blast Noise Prediction computer program (BNOISE 3.2), designed to predict the noise impact of military installations resulting from the blast-producing operations of armor, artillery, and demolition.

Purpose

The purpose of this report is to develop and explain the relations between and among various data developed to predict the blast noise impact of Army facilities, and from these data bases, to develop the computational procedures used within the Blast Noise Prediction computer program.

This volume contains the BNOISE 3.2 program description and program listing.

Mode of Technology Transfer

The program and documentation for the Blast Noise Prediction computer system will be available from the Department of the Army Assigned Responsible Agency (1981).

P. D. Schemer, R. J. Golf, and E. M. Ettle. The National Amplitude and Spectrum of Blasis Propagated in the Atmosphere. Volumes Land H. Technical R. poir (TR) N. D. ADA03361 and ADA033646 (U.S. Army Construction Engineering Research Euboratory [CTR1]. November 1976:

P. D. Schomer, L. M. Little, and A. B. Hunt. Wonshie Discours Patterns for Arm Meapons. Interim Report (IR), N. 605 AD A006523 (CARL October 1978).

2 PROGRAM DESCRIPTION

The Blast Noise Prediction computer program (BNOISE 3.2) was developed to allow faster computation of noise values in terms of C-weighted day/night average sound level (CDNL).* It also provides generalized and uniform noise-impact predictions when given a specific set of input data.' The output of the Blast Noise Prediction computer program is a set of CDNL contours which can be overlaid on a land-use map of military facility and its environs to allow rapid identification of noise-sensitive land areas.

This volume is written for those persons familiar with computer programming who require documentation and background for the Blast Noise Prediction computer program. It can also be used as a program reference manual

System Overview

The Blast Noise Prediction program is a digital computer program which can produce CDNL contours for military facilities with impulsive noise sources (e.g., artillery, explosions or demolitions, and weapon blasts).

The program is written in Fortran IV and used on a Control Data Corporation (CDC) 6600 computer. It consists of a main controlling program, called CDNL, which invokes a series of subroutines when given a set of modules chosen by the user. There are also several supporting programs which aid CDNL.

Each subroutine contributes either directly or indirectly to the goal of producing CDNL contours for a facility. The data base for the program is a description of the facility and its noise sources; i.e., the location of firing points, targets, blast sites, and materials involved in producing the noise. Program modules which are to be used require instructions in the form of eard input, headed by the module call card and followed by pertinent information chosen or provided by the user. In addition, input files such as the data base file or a file containing intermediate results from another module are necessary. Each module produces a printed report consisting of:

- 1 Module name
- 2. Input values supplied by the user, and/or default values supplied by the program
- 3. Module-specific output
- 4. Module execution time

Some modules also produce output files on auxiliary storage (Figure 1 is a system flowchart). Table 1 summarizes the input/output (I/O) files used by the contouring program. This table lists the I/O files by number, a description of the files, the routines which use them for input, and the routines which produce them as output. If the programmer wishes to modify the program, he** should avoid changing these file identifiers (TAPE NUMBERS) as they already appear elsewhere in the program. TAPES is the input file used by all routines having card input. TAPE6 is the output file used by all routines which produce a printout (see Figure 1).

P. O. Schromer, R. J. Golff, and J. M. Lattle, The Statistics of Applicate and Specialm of Blast Programme in the Application of the Applicatio

^{2.} The CDNL is the mass, a surrough criterion in Army Technical Manual (TM) 8 803.5. Lectromagnum Principle of A. A. Lectromagnum (Department of the Army IDA), 18 June 1978).

^{**}The male pronoun is used throughout this report to refer to both genders

USER'S RUN

When the user has a set of data for which he wishes to receive output from the Blast Noise Prediction program, he must put together a deck of cards called the USER'S RUN. This deck is composed of

- 1 Job Control Language (JCI) cards
- 2 Input data cards
- 3 Module cards

Figure 2 presents the order of these sections within the deck. The user's main interest lies in providing the Blast Noise Prediction program with data in the proper form, knowing what the modules do, and understanding what type of output can be expected from them. The programmer should familiarize himself with the connection between the USER'S RUN deck and the corresponding code in the subroutines.

The programmer should know what input must be provided to the Blast Noise Prediction program by the user so he can relate items in the deck to the internal variables and subroutines within the program; it is also helpful to know how these data are acquired. Figure 3 shows the general composition of input data of the user's deck.

ICL Cards

The user must provide a set of system-specific JCL cards at the beginning of the USER'S RUN deck. These cards inform the computer that someone wants to use the stored Blast Noise Prediction program. The JCL cards do not change from run to run for the average user, and he should not concern himself with them beyond knowing that they must precede the cards of his actual data items and module calls.

Input Data

The Blast Noise Prediction program considers noise from two types of sources: firing points and target points. The firing point is the spot from which a projectile is being launched or the site of a demolition charge, the target point is the site of a projectile's impact; if data are to be useful to the Blast Noise Prediction program, a projectile's launching weapon must produce a sharp blast and not a drawnout, "whoosh-type" sound such as that emitted by most rockets.*

The data required on input cards are (1) the X and Y coordinates of the firing range for both the target and firing points, and (2) the amount of propellant and projectile charge, in TNT equivalents, producing the noise at both the firing or target point. In the case of sound occurring only at a firing point, the user must determine whether the sound is caused by an explosion at that point (e.g., a demolition charge) or if it is an instance of a weapon propelling a projectile which makes no noise upon impact at its target point (e.g., an illumination round). In the first case, only the firing point coordinate is needed, while in the second, both firing and target point coordinates are required, even though there is no sound at the target. This is because noise produced by a weapon has a directivity pattern associated with it that varies the amount of sound pressure around the weapon. The degree of variance depends, in great part, on the physical characteristics of the weapon itself. A projectile or demolition, however, produces noise omnidirectionally from its source.

It is up to the user to differentiate between the amount of propelling charge at the firing point and the amount of projectile charge exploding at the target point. These values vary for different weapons and ammunition. Table 2 gives the weapon codes used for a certain set of standard weapons. The weight of propellant and projectile charges for these weapons, in TNT equivalents, and directivity information are given in Tables 3 and 4.

It can be seen from Table 3 that various amounts of propellant can be used to fire one size of projectile. The user is not restricted to the weapon types listed in Tables 2, 3, and 4. He may create data to suit his needs as long as they are put into proper format and labeled with a new gun-type code.

P. D. School et Al. Little, and A. B. Hinte, Level Director, Process for Jona flexible appears, IR N 60/ADA066223 (CERL Lighters, 2020).

As present is small charge is used to simulate the sound of cockets

("New" means that the code number differs from all of the codes already provided.) This prevents the computer and/or other users from confusing it with an already listed code. At no time can two different weapons have the same code within one deck. The user must also specify the number of rounds fired by each weapon at each point during the day (0700 to 2200 hours) and during the night (2200 to 0700 hours).

The input data portion of the USER'S RUN deck is divided into-

- 1. Gun-type cards
- 2. Target point definition cards
- 3. Firing point definition cards.

The gun-type cards describe the weapons by specifying (1) the weight of explosive in the projectile, (2) the weight of the different propellant charges, (3) the name of the weapon, (4) the weight parameters A and B, and (5) the directivity pattern. Table 5 outlines the required format. The target point definition cards list the X and Y coordinates of the target area. The firing point definition cards, in addition to listing the X and Y coordinates of the firing point, specify (1) what types of weapons are the noise-producing sources. (2) how often each specified weapon is fired during the day and at night, (3) if the projectile impacts at the target, and (4) the height of impact. Tables 6 and 7 give the card format for target and firing point data, respectively.

Modules

A sequence of individual sections, called modules, informs the Blast Noise Prediction program what the user wants done to the input data he has provided. These modules correspond to major subroutines in the Blast Noise Prediction program. There are, however, more subroutines which are necessary for program operation than there are modules available to the user.

To identify and run a Blast Noise Prediction program module, the user must (1) input a card identifying the module to be run followed by (2) a card (or cards) specifying the parameters which that module requires to function correctly. The user varies the parameters to account for the input data and to produce the desired output. Output can be either a set of printed tables of CDNL values or an actual paper plot of CDNL contours, depending on which modules are invoked. There is some freedom in the ordering of the modules, however, certain modules use the output generated by other Blast Noise Prediction program modules. If the user chooses one of these "dependent" modules, he must be sure it is preceded by the modules which will provide the data it needs. Figure 1, a flowchart for Blast Noise Prediction program modules, shows which inputs they require and the output they produce.

The following modules are currently available from the Blast Noise Prediction program.

NEF-1 specifies whether the data base coordinates are in meters or feet. There is only one of these cards per USER'S RUN and it is always the first card in the module section. It is also used for specific options which might be available.

BASE generates line segments which can be drawn by the PLOT routine on the paper plot output. It can be used to create an outline of the facility for which the user is providing data. It can also be used to draw lines on the PLOT output to be used as a visual reference for lining up the paper plot with the actual map. BASE causes PLOT to draw line segments from coordinate to coordinate, as specified.

BOUNDS uses map coordinates to set the limits of the total area encompassed by CDNL calculations and to be enclosed by the PLOT drawing. It is used to define the area in which the user is interested.

FORMA tabulates target and firing point information from the input data. It compresses data into the form required by PUDDLE GRID.

LOCATOR labels target and firing points on the plot.

MAP does elementary error checking and is a preprocessor for the input data. It also produces a listing of input data and generates cross-reference tables.

The procedures for collecting and coding data are given in - J. McBryan, Compilation of Operational Noise Data, TR N 82/AD x080429 (CTRT Usquary 1980)

PLOT combines output from appropriate modules for use by the NASAPLOT* program to create actual plot! Econto its of CDNL levels.

POINT calculates CDNL for specific locations.

PUDDITE GRID creates a recommular grid of CDNL values in the area specified by the user in the BOUNDS module.

SCATTER allows the PLOT routine to creat. (dots) of noise sources; the number of dots is proportional to the blasting activity if that point

STOP signals the Blast Noise Prediction program that the module section of the USER'S RUN deck has been terminated

A multipunch 6789 card must be the last card in the USER'S RUN; the multipunch informs the computer that all input for the USER'S RUN has been submitted and that the system does not need to look for more cards in order to execute the run.

Figure 4 represents a possible sequence in which the modules of the Blast Noise Prediction program could be ordered by the user in the USER'S RUN. Tables 8 through 17 summarize the input required by each module of the Blast Noise Prediction program. These tables describe the instruction cards for the modules and list, in tabular format, the specifications for all the parameters required by each module. Tables 8 through 17 have the following column headings:

(ARD II) gives each card of a module a name as a reference; e.g., the first card in MAP is called MAP-1

COLUMNS the card columns in which data must appear.

VARIABLE NAME—the name given to these data within the program.

FORMAT: Fortran description of how that data item must look. There are three basic formats used by the Blast Noise Prediction program; each corresponds to a particular type of data.

- 1 A -- alphanumeric data such as module names; i.e., items combining the letters A through Z and the numbers 0 through 9. For example, A10 or a field of up to 10 characters (letters and numbers) must be left justified.
- 2. 1 -- integer number, e.g., 12 or a 2-column (digit) number with no decimal point (must be right justified in the columns in which it appears).
- 3. F -- all other data and normal decimal numbers for real arithmetic operations; e.g., F10.1 or a 10-digit real number at maximum (can be smaller as long as a decimal point is put in, e.g., 32.5 or 56.3). The 10 means the number is a total of 10 columns; one column is a decimal point and there is one digit after the decimal point. A shorter number simply means that the leading digits are zeros. A letter character cannot appear in a field specified as an "F or "F format. The user must make sure data ttems are in proper format on the cards in order for the Blast Noise Prediction program to interpret the input correctly.

DESCRIPTION: tells what parameter is being referred to and includes any special codes and/or notes about required data and their units, if any. Any characters between quote marks ("") are the actual items written in the specified columns of that module card.

COMMENTS/DEFAULTS—default values are the quantities the Blast Noise Prediction program will use if certain items are left blank by the user. If there is no default value given for it, that data item must be specified by the user. Special instructions regarding that card are included under this heading.

PREVIOUS CALLS REQUIRED: a module whose output is required as input to the current module and therefore must be called *before* the current module.

Additional Module Input

Most of the data required by Blast Noise Prediction program modules are self-explanatory and are listed, by module, in Tables 8 through 17. However, some parameters for PUDDLE GRID, POINT, FORMA, and MAP require more detailed explanations.

PUDDLE GRID

The "grid size" specification in the PUDDLE GRID module specifies how often, in terms of X and Y coordinates, the CDNL values are to be computed (e.g., every 1000 m or 2000 ft are reasonable values it the overall land area included in the contour is fairly large). The smaller the values used, the finer the grid size, and the smoother the contour that is produced. This is because the program has a greater number of actual points to plot from and fewer to approximate. Cutting the grid size in half will cause four times as many points to be computed and will cost about four times as much to run, since run cost is proportional to the number of points computed. The user must consider cost when choosing grid size, because if the program has to compute a greater number of values it will run longer, and therefore will cost more.

PUDDLE GRID and POINT

The "inversion factors" specification in the PUDDLE GRID and POINT modules provides a set of meteorological data to the program. Weather conditions, especially temperature, have an effect on the way sound propagates through the atmosphere (see Volume D. Currently, the Blast Noise Prediction program does not take into consideration the effects of wind. However, it does take into account temperature inversions. Therefore, the user must provide appropriate inversion data for the location of his noise study. Inversion data tables available from the National Weather Service summarize radiosonde observations made at selected weather stations. A summary of this temperature data is presented in Table 18. This table is used to determine the temperature inversion factors required by PUDDLE GRID and POINT. The user should locate the city closest geographically and meteorologically. The number in that row under the column labeled "SURFACE" is the value used for inversion factor. In the second factor is obtained under the "1-500 m" column; the third factor is found under the column labeled "1-3000 m".

FORM4

The "charge averaging technique" specification in the FORMA module allows the user to choose the range of charge sizes the program will use from among those given for the propelling charges for a specific weapon in the gun-type cards. This range is chosen in the firing point definition cards. For example, if the user states that weapon 1 normally uses charges from zones 1 through 5 (the range), the options yield the following results.

- 1. If MAX is chosen, the program will use the largest charge size in the given fields for its calculations
- 2. If CAVE is chosen, the program will average the actual TNT equivalents of all the fields and use that average for computations
- 3. If IAVE is chosen, the program will integer average the zone numbers and use the value of charge size found in that zone, i.e., 1 and 5 yield charge 3, 1 and 4 also yield charge 3. If upper and lower boundaries of the charge zones are the same number, then all three options will arrive at the same charge size. For example, if 3 and 3 are specified on the firing-point definition card as the charge range, then the program will use whatever charge value is in zone 3 of the propelling charges for that weapon, no matter which averaging technique is chosen.

M4P

If a user wishes to determine how many points will be generated by PUDDLE GRID for a specific grid size, he may request this information from the MAP module instead of calculating it himself. The user must specify the number of various grid sizes he wishes to try on the MAP-4 card, and then list these with as many MAP-5 cards as necessary. The output from MAP will list the number of points that will be generated by the chosen grid sizes. The MAP module can be used by the user to indicate the cost of producing a grid (see PUDDLE GRID, above). These MAP module cards must be

included even if the user does not wish to use this feature. The values commonly used are 01 for MAP 4 and 280 for MAP 8. If, for example, the area of interest is 10.000×10.000 m, a grid size of 1000 m would produce 10 times 10 or 100 grid points.

Module Output

All Blast Noise Prediction program modules produce printed reports which are tables of intermediate or final results and, if necessary error messages. In addition, some of the information produced by particular modules is stored temporarily, to be used as input to other modules at a later point in the program. The printouts provide a hard copy record of information supplied to the Blast Noise Prediction program, via module cards and allow easy verification of the accuracy of module facts and data items input to the main program.

Obtaining Results from Module Output

Module outputs of primary interest to the user are those produced by the PUDDLE GRID and PLOT modules. The paper contour produced by PLOT is often the end result sought by the person creating a USER'S RUN. Since the user can control the amount of area enclosed by the plot, he can specify the plot is scale to agree with the maps he is working with, or he can scale down the plot to obtain a smaller version of his results for future or intermediate reference.

It the user does not wish to incur the cost of an actual plot, then PUDDIT GRID output can be used as a source of intermediate results. PUDDIT GRID generates a list of CDNI values by cooldinates in increments specified by the GRID SIZE. The user can approximate the noise levels in any given area by using this table, it can also be compared against the expected CDNI levels in a given area, thus checking the data. For example, if PUDDIT GRID output indicates that the region around a liring point has the lowest values of the entire table, the user should go back and recheck his data for extross.

If the user wants only the PUDDLE GRID values and not the actual plot, he must modify the JCL section of his USER'S RUN by excluding from the deck all cards which are used for plotting (And of course, the PLOT module is left out of the module input cards.)

All Blast Noise Prediction program modules also produce statistics giving the amount of system time spent by the computer in a given module. This information can be used to approximate run cost. This is done by multiplying system time by cost per time anit. For example, if a module ran for 300 ms and the cost is one third of a penny/ms, then that module s cost is approximately \$1.00.

Module Error Messages

Because the Blast Noise Prediction program has no way of knowing whether the data it uses are correct it will use incorrect data that are reasonable and in proper format. The program can only indicate errors in format and point out unreasonable data items (e.g. negative charge sizes). If there are enough errors and/or unreasonable items, the program will halt execution. Therefore, it is important that the user check the statistics produced by the modules to make sure the Blast Noise Prediction program is performing operations on the correct data.

From messages tell the user that there is something wrong with the data provided to the Blast Noise Prediction program. Warning messages indicate that there is something out of the ordinary in the data, but not necessarily wrong. For example, a charge size input by the user that is appreciably larger than other charge sizes specified by the user would trigger a warning message, alerting the user to the probability of a misplaced decimal point.

Table 1 1/O File Summary

Fortran File Name	Description	Characteristics	Device	Output By Module Call: (Subroutine/Entry)	Input To Module (all: (Subroutine/Entry Name)
TAPLS (Input)	Module instructions	Card image	Card reader		
TAPE6 (Output)	Module reports	Print fine	Printer		
1 API 1	Data hase	Card image	Auxiliary storage tape/disk		LOCATOR (LOCATR) MAP (MAP) FORM-A (FORMA) SCATTER (SCATTR)
I API 8	Intermediate results, noise source tabulation	Internal format	Auxiliary storage	FORM-A (FORMA)	PUDDLE GRID (PGRID)
t APt 1	PUDDIT GRID output	Card image (PHS2 NASAPLOT)	Auxiliary storage	PUDDLE GRID (PGRID)	PLOT (PLOT)
1 APE 2	Hase outline	Card image (PHS4 NASAPLOT)	Auxiliary storage	BAST (BASE)	PLOT (PLOT)
TAPEX	Larget and firing point locations	Card image (PHS3 NASAPLOT)	Auxiliary storage	LOCATOR (LOCATR)	PLOT (PLOT)
TAPL4	Scarrergram	Card image (PHS4 NASAPLOT)	Auxiliary storage	SCATTER (SCATTR)	PLOT (PLOT)
1 API 20	Acoustical data base	Internal format	Auxiliary storage	TABGEN	READ TABLE (READEB)
TAPLSS	NASAPI OT input	Card image	Auxiliary storage	PLOT (PLOT)	NASAPLOT

OTHER TAPES TAPEST TAPE 10 TAPE 12 TAPE 15 TAPE 90, TAPE 93, TAPE 99

Table 2 Weapon Codes

Weapon	Code
105-mm howitzer (M102)	1
155-mm howitzer (M109)	2
8-in. howitzer (M110)	3
175-mm gun	4
155-mm howitzer (M109A1)	5
155-mm howitzer (M114)	6
8-in: howitzer (M110A1)	7
155-mm howitzer (M198)	8
Small charge TNT (0.25-90 lb)	10
Large charge TNT (110-500 lb)	1.1
60-mm mortar	20
81-mm mortar	22
107-mm mortar (4.2 in.)	23
57-mm recoilless rifle	30
90-mm recoilless rifle (M67)	31
106-mm recoilless rifle (M40A1)	32
20-mm gun	40
40-mm gun	41
57-mm gun	42
90-mm gun	43
2.75-in rocket	50
3.5-in rocket	51
66-mm rocket	52
LAW missife (M72)	53
TOW missile	54
Draggon missile	5.5
Shillealagh missile (from 152-mm gun)	56
40-mm grenade launcher (M203)	60
Rifle grenade (M79)	61
Hand grenade (M67)	62
M60 tank (105-mm) regular shell	90
M60 tank (105-mm) high velocity shell	91
152-mm tank gun (Sheridan) (M551) regular shell	92
152 mm tank gun (Sheridan) (M551) HEAT T shell	93
165 mm cannon (M135)	94

Table 3
Projectile and Propellant Weights for Table 2 Weapon Codes
(TNT equivalent in pounds)

Weapon	Projectile					Propellan Charge					
Code	Weight	1	2	3	4	5	6	7	8	9	10
ı	4.6	0.5175	0.605	0.7731	1.004	1.3275	1.8656	2.7456			
2	15.4	1.7687	2.2875	3.0875	4.025	7.05	9.8375	13.275	38.0		
3	36.3	5.3188	6.2688	7.5125	9.5188	16.85	22.0125	28.1375		43.6	
4	31.3	23.56	39.7	57.24							
5	15.4	1.7687	2.2875	3.0875	4.025	7.05	9.8375	13.275			
6	15.4	1.7687	2.2875	3.08757	4.025	7.05	9.8375	13.275			
7	36.3	5.3188	6.2688	7.5125	9.5188	16.85	22.0125	28.1375	38.0	43.6	
8	15.4	2.0	2.8	3.3	5.6	8.5	14.2	17.3	26.0		
01		0.25	1.0	5.0	10.0	15.0	25.0	35.0	50.0	70.0	90.0
11		110.0	140.0	170.0	200.0	240.0	290 .0	340.0	380.0	440.0	500.0
20	0.42	0.021	0.042	0.063	0.084						
21	0.6	0.22	0.25	0.28	0.31						
22	2.25	0.042	0.0653	0.0886	0.1119	1.352	0.1585	0.1818	0.1941	0.2284	
23	8.5	0.0803	0.1132	0.1642	0.3369	0.6717					
30	0.55	1.0									
31	1.72	1.31									
32	2.79	8.0									
40	0.05	0.2									
41	0.14	0.718									
42	0.44	2.28									
43	1.9	7.31									
50	5.0	0.01									
51	1.88	0.01									
52	0.13	0.85									
53	0.66	0.01									
54	5.3	0.01									
5.5	3.5	0.01									
56	8.0	14.0									
60	0.6	0.01									
61	0.6	0.0001									
62	0.6	0.01									
90	6.6	5.9									
91	2.14	11.5									
92	9.5	6.0									
93	6.3	6.0									
94	20.0	2.12									

Table 4
Directivity Information for Table 2 Weapon Codes

Weapon															
Code	A	В	0 ^	30 °	60"	90 ^	120°	150°	180°	210°	240°	270°	300°	330°	Avg.
ı	83.78	13.91	17.80	13.91	10.02	6.46	2.97	0.53	0.0	0.53	2.97	6.46	10.02	13.91	10.84
2	75.74	18.51	0.63	0.46	0.29	1.00	1.45	0.39	0.0	0.39	1.45	1.00	0.29	0.46	0.67
3	83.64	14.13	13.77	10.29	6.82	4.01	1.42	-0.64	0.0	-0.64	1.42	4.01	6.82	10.29	7.36
4	73.29	17.50	16.33	13.08	9.84	5.41	3.03	0.50	0.0	0.50	3.03	5.41	9.84	13.08	9.90
5	72.08	18.11	-1.88	-1.71	-1.53	-0.49	0.94	-0.52	0.0	-0.52	0.94	-0.49	-1.53	-1.71	-0.60
6	80.86	15.59	14.93	12.55	10.18	6.87	3.20	1.56	0.0	1.56	3.20	6.87	10.18	12.55	9.45
7	76.99	15.87	16.33	13.08	9.84	5.41	3.03	0.50	0.0	0.50	3.03	5.41	9.84	13.08	9.90
8	72.08	18.11	-1.88	-1.71	-1.53	-0.49	0.94	-0.52	0.0	-0.52	0.94	-0.49	~1.53	-1.71	-0.60
10															
11															
20	95.00	20.00	8.29	6.39	4.48	5.75	2.20	2.88	0.0	2.88	2.20	5.75	4.48	6.39	4.86
22	90.27	19.57	8.29	6.39	4.48	5.75	2.20	2.88	0.0	2.88	2.20	5.75	4.48	6.39	4.86
23	85.17	18.85	8.45	6.61	4.78	5.17	1.89	1.58	0.0	1.58	1.89	5.17	4.78	6.61	4.74
30	106.00	0.0	2.28	-0.87	-4.02	-4.77	-2.40	-0.07	0.0	-0.07	-2.40	-4.77	~4.02	-0.87	-1.29
31	107.10	0.0	-9.51	-9.75	-9.98	-7.18	-3.17	-0.49	0.0	-0.49	-3.17	-7.18	~9.98	-9.75	-4.11
32	111.80	0.0	2.28	-0.87	-4.02	-4.77	-2.40	-0.07	0.0	-0.07	-2.40	-4.77	~4.02	~0.87	-1.29
40	90.00	15.00	13.77	10.29	6.82	4.01	1.42	-0.64	0.0	-0.64	1.42	4.01	6.82	10.29	7.36
41	85.00	15.00	13.77	10.29	6.82	4.01	1.42	-0.64	0.0	-0.64	1.42	4.01	6.82	10.29	7.36
42	85.00	15.00	13.77	10.29	6.82	4.01	1.42	-0.64	0.0	-0.64	1.42	4.01	6.82	10.29	7.36
43	85.00	15.00	13.77	10.29	6.82	4.01	1.42	-0.64	0.0	-0.64	1.42	4.01	6.82	10.29	7.36
50	88.75	13.85													
51	88.75	13.85													
5.2	88.75	13.85													
5.3	88.75	13.85													
54	88.75	13.85													
5.5	88.75	13.85													
56	88.75	13.85													
60	85 00	0.0													
61	65 (10)	0.0													
62	65 00	0.0													
90	11140	0.0	15 35	14 04	12.73	761	4.81	1.09	0.0	1.09	4.81	7.61	12.73	14.04	10.78
91	115.80	0.0	15.35	14.04	12.73	7.61	4.81	1.09	0.0	1.09	4.81	7.61	12.73	14.04	10.78
92	115 80	0.0	7.56	7.38	7 19	2 73	1 05	-0.39	0.0	-0.39	1.05	2.73	7.19	7.38	4.80
93	115 80	0.0	7 56	7 38	7 19	2 73	1.05	-0.39	0.0	-0.39	1.05	2.73	7.19	7.38	4.80
94	60 91	14 49	13 77	10 29	6.82	4 01	1 42	-0.64	0.0	-0.64	1.42	4.01	6.82	10.29	7.36

Table 5
Input Data Format Description - Gun-Type Cards

Card ID	Columns	Format	Description	Comments/Defaults
GUN-1	2-3	A2	Weapon code	2-digit number giving the code for a specific weapon name
	4-10	F7.0	Projectile weight	In TNT equivalent pounds of explosive
	11-17	F7.0	Propellant weight (zone 1)	In TNT equivalent pounds of explosive
	18-24	F7.0	Propellant weight (zone 2)	10 charge zones allowed (values as specified in Table 4)
	25-31	F7.0	Propellant weight (zone 3)	
	32-38	F7.0	Propellant weight (zone 4)	
	39-45	F7.0	Propellant weight (zone 5)	
	46-52	F7.0	Propellant weight (zone 6)	
	53-59	F7.0	Propellant weight (zone 7)	
	60-66	F7.0	Propellant weight (zone 8)	
	67-73	F7.0	Propellant weight (zone 9)	
	74-80	F7.0	Propellant weight (zone 10)	
GUN-2	4-23	2A10	Name of weapon	
GUN-3	1	A1	"*" to flag end of gun-type cards	
	4-9	F6.2	Parameter A	
	10-14	F5.2	Parameter B	
	15-19	F5.2	Decibel difference from rear of gun at 0° (0° is front of gun)	Values as specified in Table 4
	20-24	F5.2	30° decibel difference	Values as specified in Table 4
	25-29	F5.2	60° decibel difference	Values as specified in Table 4
	30-34	F5.2	90° decibel difference	Values as specified in Table 4
	35-39	F5.2	120° decibel difference	Values as specified in Table 4
	40-44	F5.2	150° decibel difference	Values as specified in Table 4
	45-49	F5.2	180° "0.0"	Rear of gun
	50-54	F5.2	210° decibel difference	Values as specified in Table 4
	55-59	F5.2	240° decibel difference	Values as specified in Table 4
	60-64	F5.2	270° decibel difference	Values as specified in Table 4
	65-69	F5.2	300° decibel difference	Values as specified in Table 4
	70-74	F5.2	330° decibel difference	Values as specified in Table 4
	75-79	F5.2	Average difference from rear of gun	Values as specified in Table 4

Table 6
Input Data Format Description—Target Cards

Card ID	Columns	Format	Description	Comments/Defaults
One TR	G-1 Card F	er Target i	Point*	
TRG-1	1	Al	"*" if last target card	
	3-5	A3	1-3 character target ID	
	7-12	F6.0	Location, x-coordinate	
	13-18	F6.0	Location, y-coordinate	
	19-24	F6.0	Ground correction factor (dB)	1.5 dB

^{*}Maximum 50 targets.

Table 7
Input Data Format Description -Firing Point Cards

Card ID	Columns	Format	Description	Comments/Defaults
One FP	?-1 card and	associated	IFP-2 cards per firing point	
FP-1	3-5	A 3	Firing point ID	
	7-12	F6.0	Location, x-coordinate	
	13-18	F6.0	Location, y-coordinate	
	19-24	F6.0	Ground correction factor (dB)	1.5 dB
FP-2	1	A1	"*" if last definition card for a particular firing point	
	19-20	A2	Gun type (code)	See Tables 3 and 4
	21-24	F4.0	Number of day firings	0.0
	25-28	F4.0	Number of night firings	0.0
	29-30	12	Min charge zone	See Tables 3 and 4
	31-32	12	Max charge zone	See Tables 3 and 4
	33-35	A 3	Corresponding target ID	Must be blank if firing point sound is omnidirectional (i.e., demolition or explosion)
	36	11	"1" = no noise at target	If target is blank, this must be set to "1"
	37-41	F5.0	Height, in feet (if applicable)	"-" below ground "+" above ground

Table 8
BASE Input Summary

Card ID	Columns	Variable Name	Format	Description	Comments/Defaults
NEF-1	1-6	IMETER	A10	Distance Units "METERS"/"FEET"	
		O OTHER M			
BASE-1	1-4	HDR	A10	"BASF"	
BAS	E-2 CARD	REPEATEL	AS NECI	SSARY TO DESCRIBE BASE OUTLINE	
BASI:-2	1-10	XCOORD	1 10.0	Coordinates of point in set describing one line segment	
	11-20	YCOORD	F10.0	•	
	21	STAR	A 1	"*" indicates end of continuous line, following point starts new line	
BASF-3+	21	STAR	A 1	"*" indicates end of data for "BASE"	
PREVIOU	JS CALLS	REQUIRED	: BOUNDS	3	
REQUIR	ED FILES	: None			
OUTPUT	: Printed r	eport			
	TAPE 2	PHS4 input	to NASAI	PLOT, input to PLOT routine	

^{*}There must be one BASE-3 card. It will have an "*" in column 21.

Table 9 **BOUNDS Input Summary**

Card ID	Columns	Variable Name	Format	Description	Comments/Defaults
NEF-1	1-6	IMETER	A 10	Distance Units "METERS"/"FEET"	
	. CALLS T	O OTHER M	ODULES.		
BDS-1	1-6	HDR	A10	"BOUNDS"	
BDS-2	1-10	XMIN	F10.0	Minimum X coordinate	Boundary values used by PUDDLE
	11-20	YMIN	F10.0	Minimum Y coordinate	GRID, PLOT, SCATTER and
	1-10	XMAX	F10.0	Maximum X coordinate	LOCATOR must be set before calls
BDS-3		YMAX	F10.0	Maximum Y coordinate	to these routines.

REQUIRED FILES: None

OUTPUT: Printed report

Table 10 FORMA Input Summary

CARD INPUT:

Card ID	Columns	Variable Name	Format	Description	Comments/Defaults
NEF-1	1-6	IMETER	A10	Distance Units "METERS"/"FEET"	
	CALLS T	O OTHER M	ODULES.		
FRMA-I	1-6	HDR	A10	"FORMA"	
FRMA-2	1-4	IFUNC	A10	Charge averaging technique ("MAX"/ "IAVE"/"CAVE")	"MAX" Use maximum charge zone "IAVE" - Use average of charge zone "CAVE" Use average of actual TNT equivalents
	11-20 21	GHCORR NOWIND	F10.0	Ground correction When nonzero, prevents rewinding TAPE7	Default = 1.5 dB Default is rewind
FRMA-3	1-10	DAYS	F10.0	Number of days of information in data base	Default = 1 Day
REVIOU	S CALLS	REQUIRED	: None		

REQUIRED FILES. TAPE7 data base

OUTPUT: Printed report

TAPE8 intermediate results

Table 11 **LOCATOR Input Summary**

Card ID	Columns	Variable Name	Format	Description	Comments/Defaults
NEE-1	1-6	IMETER	A 10	Distance Units "METERS"/"FEET"	
	. CALLS	TO OTHER M	ODULES		
LOC-1	1-7	HDR	A10	"LOCATOR"	
LOC-2	1-20	CHOICE NAME LOCATE	A10	"ALL", "TARGET", or "FIRING" "NAME" prints ID on plot "LOCATION" prints coordinates	Type of points to be marked on plot
	31-40		110.0	·	Default = 0.14; best results are obtained if multiple of 0.035
	41-50	ANGLE	F10.0	Rotation of letters	Default = 0°

PREVIOUS CALLS REQUIRED: BOUNDS

REQUIRED FILES: TAPE7 data base

OUTPUT: Printed report

TAPE3 PHS3 input to NASAPLOT, input to PLOT routine.

Table 12 MAP Input Summary

CARD INPUT:

Card ID	Columns	Variable Name	Format	Description	Comments/Defaults
NET-1	16	IMETER	A 10	Distance Units "METERS"/"FEET"	
	. CALLS T	O OTHER M	ODULES.		
MAP-1	1-3	HDR	A10	"MAP"	
MAP 2	1	II LAG	11	Print data base information if ≠ 0	
	2	111	11	Print target vs thing point table (if ≠ 0)	
	,	HC.	11	Print target vs gun type table (If ≠ 0)	
	4	IG1	11	Point gun type vs target table (if ≠ 0)	
	ς.	IGE	11	Print gun type vs firing point table (if ≠ 0)	
	6	I01	11	Do not print "Extraneous Data" message if ≠ 0	
MAP-3	1-10	DAYS	F10.0	Number of days of information in data base	
MAP4*	1-2	N	12	Number of grid sizes to be tested	Card should be repeated N times
MAP-5	1-10	GRDSZ	F10.0	Grid size	as specified by MAP-4
PREVIO	US CALLS	REQUIRE): None		

REQUIRED FILES: TAPF 7 data base

OUTPUT Printed report

^{*}There must be one MAP-4 card and at least one MAP-5 card.

Table 13 **PLOT Input Summary**

Card ID	Columns	Variable Name	Format	Description	Comments, Defaults
NFF-1	1~6	IMETER	A10	Distance Units "METERS"/"FFFT"	
	. CALLS I	O OTHER M	ODULES		
PLT-1	1-4	HDR	410	"PLOT"	
PLT-2	1	PUDG	11	"I" if PUDDLE GRID output (TAPE1) to be used	0
	2	LOC	11	"1" if LOCATOR output (TAPE3) to be used	0
	3	SCAT	11	"1" if SCAFTER output (TAPE4) to be used	0
	4	BAS	11	"1" if BASI output (TAPI 2) to be used	0
PLT-3	1-7	SCALE	F7.0	Scale	5000 (1000 < 7 < 99999)
	8-11	PERCX	140	$\pi \mathbf{x}$	$1.0 (0.01 \le x \le 9.0)$
	12-15	PERCY	140	$_{i}\mathbf{Y}$	$1.0 \ (0.01 \le \times \le 9.0)$
	16-19	MAG	140	Magnification	1.0 (0.01 < x < 9.0)
	20-23	PLRCSM	14.0	√ smoothing	$0.333 (0.01 \le \times \le 9.0)$
	24-26	START	13	First contour level to be plotted	55 (1 < x < 999)
	27-29	STOP	13	Last contour level to be plotted	75 (1 < × < 999)
	30-32	LSTART	13	Lirst contour level to be labeled	55 (1 < × < 999)
	33-35	LSTOP	13	Last contour level to be labeled	$75 (1 \le \times \le 999)$
	36-37	LABEL	12	Label	1 ("I" - Labels, " 1" = No Labels)
	38-39	INC	12	Contour increment	5 (0 < × < 99)
	40-41	LINC	12	Label increment	$5 (0 \le \times \le 99)$
Repeat F	LT-4 and	PLT-5 cards a	is much as i	needed	
PLT-4	1-10	x	F10.0	X-coordinate starting location of text	
	11-20	Y	F10.0	Y-coordinate starting location of text	
	21-30	HT	110.0	Height	
	31-40	ANGLE	F10.0	Angle	0.
	41	IC	11	O-plotter coordinates (inches) 1-MAP coordinates	Default = 0
	42-79	(I=1,38)	38A1	Text (terminated by \$)	
	80	STAR	41	"*" indicates last text card	
P1.T-5	1-10	11T I	1.10.0	Height (if different from preceding)	
	11-79	$\Pi(XT(I))$	69A1	Text continued (terminated by \$)	Additional text for labeling
	80	STAR	4.1	"*" if last card	· · ·
PLT-6	80	STAR	A 1	"*" if last card, follows PLT-3 if PLT-4 and PLT-5 are not included	This card must be included

PRI-VIOUS CALLS REQUIRED. BOUNDS, PUDDLE GRID, BASE, LOCATOR, SCATTER (if they are used)

REQUIRED FILE TAPE1, TAPE2, TAPE3, TAPE4 (it they are used)

OUTPUT Printed report
TAPE55 NASAPLOT input file

Table 14
POINT Input Summary

Card 1D	Columns	Variable Name	Format	Description	Comments/Defaults
NEE-1	1-6	IMETER	A10	Distance Units "METERS"/"FFET"	
	CALLS T	O OTHER S	ODULES.		
PNT-1	1-10	HDR	A10	"POINT"	
PNT-2	1-10	RINVI	F10.0	Inversion factor 1	SURFACE
	11-20	RINV2	F10.0	Inversion factor 2	1-500 m
	21-30	RINV3	1:10.0	Inversion factor 3	1-3000 m
	31-40	IBOTH	A10	"DAY", day noise only; "NIGHT," night only; "BOTH," both.	
		PNT-3 is to	be repeated	f as much as needed	
PN 1-3	1	II-LAG	A1	"*" indicates last PNT-3 card	
	2-10	Name	A9	Name of location X, Y	
	11-20	X	110.0	X-coordinates	
	21-30	Y	E10.0	Y-coordinates	
PREVIO	US CALLS	REQUIRE): BOUNDS	s	
REOUTR	UED FILES	TAPE8	ntermediac	results from FORMA	

Table 15 PUDDLE GRID Input Summary

CARD INPUT:

OUTPUT. Printed report

Card ID	Columns	Variable Name	Format	Description	Comments/Defaults
NI F-1	1-6	IMETER	A10	Distance Units "METERS" "FEET"	
	CALLS	O OTHER M	ODULIS		
PGRD-1	1-10	HDR	A10	"PUDDLE GRID"	
PGRD-2	1-10	RINVI	F10.0	Inversion factor 1	SURFACE
	11-20	RINV2	F10.0	Inversion factor 2	1~500 m
	21-30	RINV3	F10.0	Inversion factor 3	1~3000 m
	31-40	GRDSZ	F10.0	Grid size in meters or feet	
	41-50	IBOTH	A 10	"DAY," day noise only; "NIGHT," night only, "BOTH," both	
	51-60	GRDNAME	A10	Name to be assigned to TAPE1 PUDDLE GRID	

PREVIOUS CALLS REQUIRED. BOUNDS

REQUIRED FILES: TAPE8 — intermediate results from FORMA

OUTPUT: Printed report

TAPE1 PHS2 input to NASAPLOT to be processed by PLOT routine

Table 16 SCATTER Input Summary

CARD INPUT:

Card ID	Columns	Variable Name	Format	Description	Comments/Defaults
SI 1 - 1	1-6	1ME 11 R	A1 0	Distance Units "METERS" ("EFFT"	
	CALLS I	оония ме	DULIS		
8(1.1	1 - 7	HDR	$\mathbf{A}(0)$	'SCALILIC'	
6CT-2	1-4	IK(X) (X=1,4)	441	Combination (in any order) of the letters "4" SCALLER information collected for targets 4" SCALLER information collected for tiring points "B "D," "N" both day and right data, day only night only, respectively "G" only specified gun types (from columns 5-60)	Detault "HB"
	5-6	IDGUN(1)	A2	It "G" selected, these are the specified gun types	There should be no blank fields inter- spersed among IDs as scanning stops at first blank field encountered
	7-8	IDGUN(2)	A.2		
	9-10	IDGUN(3)	42		
	59-60	IDGUN(28)	Α2		
	6J-70	JACT	} <u></u> 10.0	Multiplier — SCATTLR points will be multiplied by the factor before dividing by days	1
	71-80	SD	F10.0	Standard deviation (meters/feet)	(300.)
C1-3	1-10	DAYS	1.10.0	Number of days in data base	1
RI VIO	US CALLS	REQUIRED.	BOUND!	S	
vi 101 i	Printed i	enort.			

OUTPUT Printed report TAPE4. PHS4 input to NASAPEO1, input to PLOT routine

Table 17 STOP Input Summary

CARD INPUT:

Card ID	Columns	Variable Name	Format	Description	Comments/Defaults
NI I -1	1-6	IMETER	A1 0	Distance Units "METERS"/"FFFT"	
	CALLS TO	O OTHER S	4ODULES		
S1P-1	1-4	HDR	A10	"\$10P"	Closes NASAPLOT input file
PREVIO	US CALLS	RI QUIRLI). Alf mode	iles for given USFR'S RUN	
RI QUIR	RED LILES:	None			
OUTPUT	Frinted to	•	SASAPLOT		

Table 18
Temperature Inversion Factors

Location	Surface	1-500 ш	1-3000 ш	Location	Surface	1-500 ш	1-3000 m
Albany, NY	45.1	20.1	45.0	Little Rock, AR	64.0	13.4	29.8
Albuquerque, NM	6.17	6.0	11.4	Medford, OR	7.97	5.1	13.9
Amarillo, TX	73.2	14.2	21.9	Miami, FL	9.09	6.7	24.3
Anchorage, AK	55.2	13.3	25.1	Midland, TX	65.8	15.5	27.9
Annetle, AK	30.9	3.0	26.2	Montgomery, AL	66.5	12.1	27.0
Athens, GA	70.1	13.3	23.5	Nantucket, MA	46.6	18.3	46.5
Barter Island, AK	48.1	34.3	48.7	Nashville, TN	0.99	10.5	27.8
Bismark, ND	64.3	18.0	32.0	New York, NY	27.8	22.0	8.95
Boise, 1D	7.67	4.5	8.5	Nome, AK	65.7	₹.	26.2
Brownsville, TX	61.0	9.5	30.4	North Platte, NE	65.7	16.5	29.9
Buffalo, NY	44.9	10.5	39.4	Oakland, CA	43.4	21.3	49.0
Burwood, LA	17.1	5.6	28.9	Oklahoma City, OK	63.4	17.0	30.9
Cape Hatheras, NC	44.7	8.6	36.6	Omaha, NB	64.1	19.6	32.6
Caribou, ME	44.2	20.6	45.6	Peoria, 1L	68.2	14.4	27.6
Charleston, SC	69.7	14.2	23.0	Pittsburgh, PA	58.2	10.5	32.9
Columbus, MO	65.2	14.5	29.2	Point Barrow, AK	46.7	34.3	49.9
Dayton, OH	60.7	11.6	29.6	Portland, ME	55.0	17.6	36.6
Denver, CO	82.8	4.3	12.3	Rapid City, SD	74.8	7.7	19.3
Dodge City, KS	72.6	15.4	24.1	St. Cloud, MN	55.3	21.4	39.9
El Paso, TX	9.59	4.7	14.1	Salem, OR	63.6	7.3	22.3
Ely, NV	91.6	Þ	2.8	Salt Lake City, UT	83.4	3.7	6.4
Fairbanks, AK	71.5	8.9	17.6	San Antonio, TX	34.6	14.0	51.1
Flint, MI	53.2	15.2	36.5	San Diego, CA	47.3	8.97	50.0
Fort Worth, TX	45.8	25.0	48.0	San Juan, PR	44.7	1.3	24.5
Glasgow, MT	73.9	10.9	20.1	Santa Monica, CA	42.2	56.6	53.0
Grand Junction, CO	84.0	1.3	3.7	Sault Sainte Marie, MI	53.9	15.4	36.5
Great Falls, WI	9.65	13.7	33.6	Seattle, WA	52.2	5.2	25.0
Green Bay, WI	59.0	13.7	33.6	Shreveport, LA	55.9	17.5	36.0
Greensboro, NC	62.9	12.4	25.1	Spokane, WA	0.07	14.1	19.0
Hilo, HI	85.1	κi	8.1	Tampa, FL	67.7	7.6	18.0
Huntington, WV	0.09	7.3	30.6	Tatoosh Island, WA	23.1	12.1	43.7
International Falls, MN	9.65	14.4	33.7	Topeka, KS	53.5	23.6	40.9
Jackson, MS	64.2	15.8	29.8	Tucson, AR	9.68	1.4	4 .0
Jacksonville, FL	63.7	11.2	22.8	Wallops Island, VA	57.9	13.8	34.2
Lake Charles, LA	79.2	9.1	18.5	Washington, DC	67.0	7.7	56.9
Lander, WY	84.6	1.2	6.1	Winnemicca, NV	88.3	1.5	3.7
Las Vegas, NV	84.2	1.1	5.8	Winslow, AR	88.0	2.1	4.9
Lihue, HI	24.0	-	62.6	Yukatat, AK	57.1	2.1	14.8

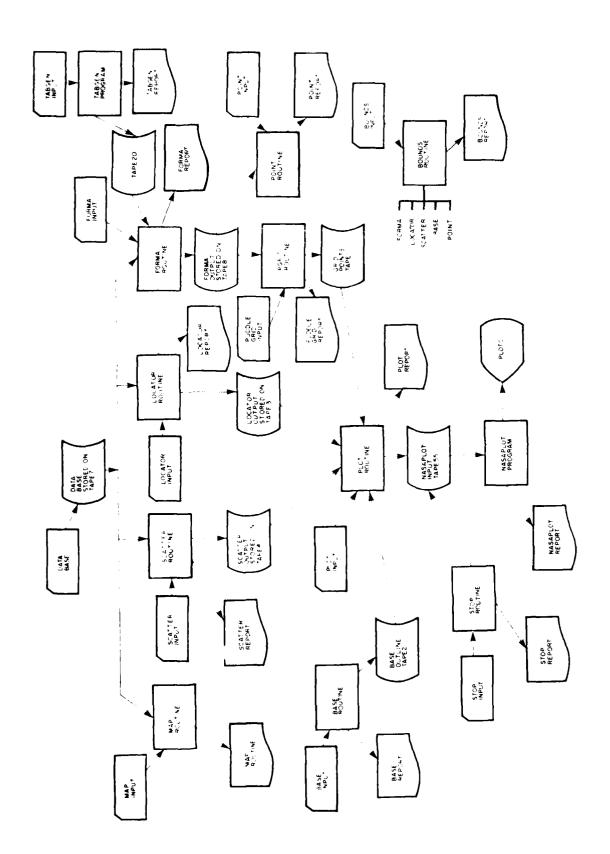


Figure 1. System flowchart.

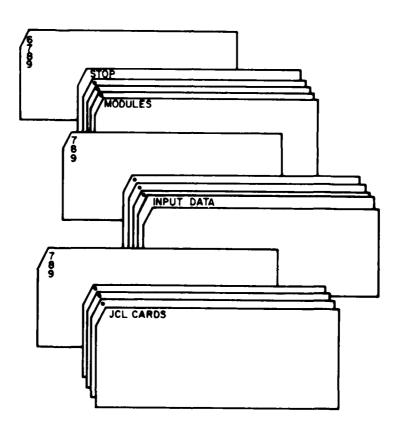


Figure 2 Order of sections within the deck

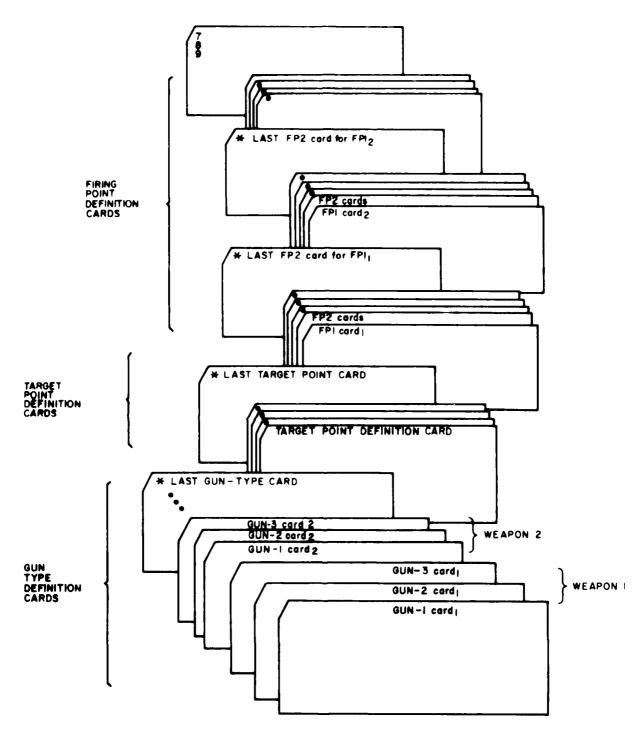


Figure 3. General composition of input data of the user's deck

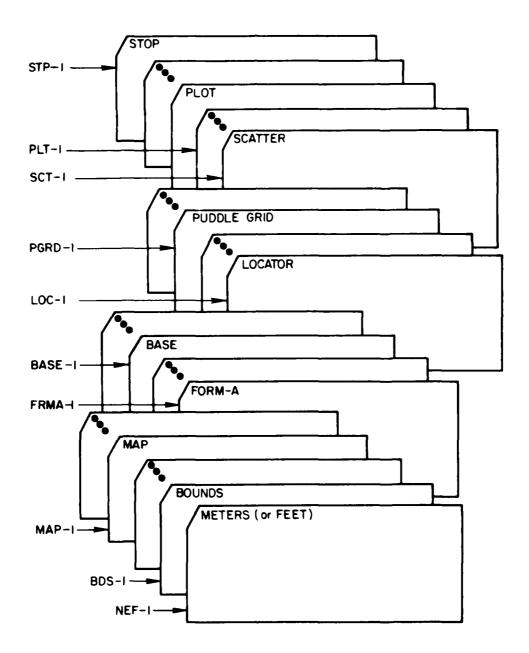


Figure 4. Sample composition of module.

3 PROGRAM AND SUBPROGRAM DESCRIPTIONS

This chapter describes the Fortran routines used by the Blast Isoise Prediction program. The control program (CDNI) is described first, followed by descriptions of the subroutines and functions in alphabetical order. Flowcharts are included for some of the routines. Table 19 lists the common blocks used by the Blast Noise Prediction program.

The Blast Noise Prediction program uses a number of standard Fortran functions as well as the CDC routines

ENCODE - memory-to-memory I/O

SECOND -- CPU time

FOF -- end of file test

FXIT -- program termination

DATE - get date

TIME -- time of day

GETJN -- get job name

Any subprogram references are noted in the "subprograms/routines called" entries in the following sections.

Program CDNL

CDNL is the control program for the Blast Noise Prediction program. It calls the appropriate sub-routines to perform the function(s) requested by the user:

Input: "NEF-1" card; module instruction cards.

Function/method: CDNI does program initialization, establishes certain program-wide default values, and sets the distance units (meters or feet) to be used for the execution according to the user's first input card (NEF-1). This should be followed by the first module call card. If this contains a valid module call -- MAP, FORMA, BASE, and so on -- CDNL branches to the corresponding calling sequence. Following execution of the requested module, control returns to CDNL which then processes the next module call card.

Subprograms/routines called: BASE, BOUNDS, FORMA, LOCATR, MAP, PGRID, PLOT, POINT, SCATTR, STOPP; CDC routine EOF.

Output printed report.

Error diagnostic: "INVALID MODULE NAME". Read a module card and could not find it as an acceptable module name. Program halts.

Flowchart: Figure 5.

Subroutine BASE

Input module instruction cards

Function/method: creates the outline of the installation or region the user is working with on the PLOT output by drawing line segments from (X,Y) coordinate to (X,Y) coordinate of the specified region. The coordinates are read one at a time and checked for validity to ensure that they are within the boundaries specified in the BOUNDS module. The first (X,Y) coordinate is read and temporarily saved until the second (X,Y) coordinate is read and saved, at which time both coordinates are output to the NASAPLOT file as a pair of endpoints for a line segment. This pair of endpoints is also listed in the printed report to help the user verify that his input data are producing the intended output. The

next (X,Y) coordinate is then read and saved, and the second pair of endpoints is output to the NASA-PLOT file and the printed report. This continues as long as the user requests a continuous line. When a break occurs (indicated by a "*" in column 21 \cdots see Table 8), two new coordinates are read, and the pairing starts again.

Subprograms/routines called Fortran function SIGN, CDC routines EOF, SECOND.

Output TAPE2 (NASAPLOT, PHS4, line cards), printed report

Frror diagnostics

- 1 """NEXT CARD NOT WITHIN BOUNDARIES"" indicates an X or Y coordinate of a line segment instruction in BASE extends beyond the minimum or maximum values specified in BOUNDS
 - 2 "ERROR NO FOE CARD (* IN CC2D)

JOB ABORTED" indicates that the user forgot to include a BASE-3 card with a "*" in column 21 to indicate that the input for the BASE module has been completed.

- 3 "***DUE TO BOUNDARY ERRORS NO OUTPUT***
- ****TAPE WAS CREATED THIS RUN**** indicates that a type 1 or 2 error has occurred. The BASE module will have no output that can be used by the rest of the program.

Subroutine BOUNDS

Input module instruction cards

Function/method—sets the limits of the system in terms of map coordinates ("system" refers to the total area encompassed for CDNL calculations and for creation of the PLOT—It is used to define the overall area of interest), tests for valid coordinates and terminates execution if they are not found

Subprogram/routines called CDC routines FOF, SECOND

Output printed report

Error diagnostics

- 1 "*INCORRECT BOUNDARIES*
- *NO BOUNDS SET*" indicates a mistake in specifying the boundaries -- the maximum values are less than the minimum ones
- 2 "*FRROR -- MISSING INPUT CARD, JOB ABORTED*" indicates that a BOUNDS card is missing, the module has not been supplied all of its data

Subroutine BDSET

This routine is used to set the BOUNDS. It calls Fortran routines ABS, INT. There is no error diagnostic

Subroutine CALCNR (X,Y)

CALCNR calculates the CDNL value at a grid point (X,Y). It is used by the PGRID routine. For theoretical background, see CERL TR E-17 Predicting Community Response to Blast Noise and Volume U.

Input TAPE8, via COMMON

Function/method—the calculations proceed in the manner outlined in Chapter 5 involving the equations presented there—The CDNL value has the name CNR in the program—The height and weight factors are calculated in FORMA and found as SDBWH from TAPE8

Subprograms/routines called Fortran functions ALOG10, SQRT, ATAN2, IFIX

P. D. Schomer of a Physical Communical Response a Bracon to Gradual Report Fold ADA (1869) (CFR). Described [17]

Output: CDNL value for point specified.

Error diagnostics

- 1. If both day and night cumulative noise sum = 0, CNR set to -99.0.
- 2 If (X,Y) is closer than 100 m to a noise source, it is limited to 100 m.
- 3. If (X,Y) is further away than 100 000 m, it is limited to 100 000 m.

Flowchart. Figure 6

Subroutine CFOUR

Calculates the C-weighted noise level for an explosion in the air. Calls Fortran function ALOG10. There is no error diagnostic.

Subroutine FORMA

FORMA tabulates the target and firing point information from the data base (TAPE7) in the form required by PUDDLF GRID

Input module instruction cards, TAPE7 (data base)

Function/method the data base consists of an ID number and location for each target, and location coordinates for each firing point followed by the definition cards for all the noise sources at that site. These cards give (1) the gun type, (2) number of day and night firings, (3) maximum and minimum charge zones. (4) target ID or an indication that the source is omnidirectional, (5) an indication of whether the noise is produced at the target, and (6) how high or low the explosion is at the target

For each data entry, FORMA calculates the sine (ANGSIN) and cosine (ANGCOS) of the noise direction, using value 999.0 to flag ominidirectional sources (including targets). It also calculates the decibel charge correction factors for TNT weight (DBWT) and height (DBHT). The last two are combined in array SDBWH. From this information, FORMA compiles a table with an entry for each given noise source, i.e., each given firing-point-target/height charge or target-charge combination (a target also being a source of ominidirectional noise when hit). For each entry, FORMA accumulates the number of day and night firings with that charge from (firing point) or toward (target point) that location. Charge is expressed in equivalent weight of TNT derived from the gun type and maximum and minimum charge zones, using the averaging techniques specified by the user

The array CHARGE contains the equivalent TNT weights, one column is allowed per gun type, with rows corresponding to charge zones. Depending on the technique specified, the charge figure used in calculations may be the weight corresponding to the maximum charge zone (MAX), the weight corresponding to the average of maximum and minimum zones rounded to the next highest integer (IAVE), or may be the average of the two weights corresponding to maximum and minimum charge zones (CAVE).

A header record of basic information (number of unique noise sources, number of days of data in the data base, coordinates of grid origin) is written to TAPE8, followed by the arrays:

XLOC = X coordinates of sources

YLOC = Y coordinates

SDBWH == weight and height correction factors

ANGSIN = sines of noise direction
ANGCOS = cosines of noise direction
DAYNO = number of day firings
DARKNO = number of night firings

Subprograms/routines called READTB, CFOUR; Fortran functions ALOG10, SQRT, ABS, MAXO, IABS, AMINI; CDC routines EXIT, SECOND, EOF.

Output printed report, TAPE8.

Error diagnostics

1 "....WARNING GUN IS POINTING AT

SELF. LOCATION "indicates that the firing and target points have been defined to be the same spot at the specified location. Not the proper way to code a demolition.

2 " LERROR ... ALL SOURCES ARE TARGETS

NUMBER OF SOURCES COUNTED ARE _____ indicates that no firing points have been specified. The user/programmer can have all firing points if all rounds are demolitions without targets, but not the other way around. If there are no target point cards, a blank card with an "*" is still required to indicate the end of the target data.

3. "....ERROR....NUMBER OF SOURCES WILL EXCEED SPACE

NUMBER OF SOURCES NOW IS _____" indicates that too much data have been provided. Current limit is 2000 unique noise types.

- 4. " .. ERROR... UNDEFINED TARGET ID FOR FIRING PT ____ " indicates that a firing point is shown to have a target point which has not been defined in the target-point definition cards. Often caused by typing error or table overflow.
- 5 " ERROR....UNDEFINED GUN ID, FOR FIRING PT ____ " indicates that a firing point is shown to have a gun code which has not been defined in the gun-type cards. Could be caused by a typing error
- 6 " ERROR. EOF ENCOUNTERED WHILE PROCESSING GUN TYPE TABLE DATA" indicates that a "789", signaling end of input, has been found in the middle of the gun-type cards
- 7 " ERROR GUN TYPES EXCEED TABLE LIMIT" indicates that too much data have been input. Current limit is 50.
- 8 " ERROR... BLANK TARGET ID, OMNI FLAG NOT SET FOR SOURCE AT FIR-ING POINT "indicates that the demolition flag for a firing point has not been set and that no target has been specified for it. One of the preceding **must** be included.

Flowchart Figure 7.

Subroutine LOCATR

Input module instruction cards, TAPE7.

Function/method labels target and firing points on the plot.

Supprograms/routines called CDC routines EOF, SECOND.

Output printed report, TAPE3 (PHS3 text cards).

Error diagnostic

"*PREMATURE FOR ON DATA BASE FILE*

TAPE 3 NOT CREATED" indicates that a "789" has been encountered in the wrong place

Subroutine MAP

This routine is a checker for the data base

Input module instruction cards, TAPE? (data base)

Function/method

1. Reads and optionally prints target card images from TAPE7, checking for maximum and manimum coordinate values.

- 2 Reads and optionally prints firing point location and definition card images, continuing search for maximum and minimum coordinate values, and checking that target IDs are valid (i.e., previously encountered in No. 1 above).
 - 3. Builds cross-reference tables and prints basic statistics.
 - 4. If user inputs trial grid sizes, calculates size in grid units

Subprograms/routines called PUTXR, Fortran functions, ABS, MINO; CDC routines EOF, SECOND SHIFT

Output printed report. Note: MAP will print a series of stars ("****") if a number exceeds output format, but is within the limit of the input format.

Error diagnostics

- 1 "FRROR-FOL FNCOUNTERFO WHILE READING TARGET CARDS" indicates that a 1789", signaling end of input data, has been found in the middle of the target-point cards.
- 2 "FRROR-SOURCE DEFINITION CARDS ENDS IMPROPERLY (WITH A EOF)..." indicates that a "789" was encountered at the end of a set of definition cards instead of a star (*) to indicate the last of such cards.
- 3 "ERROR--UNDEFINED TARGET ID" indicates that a target-point name entered on a firing-point card had no equivalent defining data in the target cards.
- 4 "ERROR-GUN TYPES EXCEED TABLE LIMIT IN MAP; ONLY FIRST A TYPES USED FOR SUBSEQUENT CROSS-CHECKING" indicates that not enough space is allowed for all cross-reference checking and that there are too many gun-type cards.
- 5 "ERROR--UNDEFINED GUN ID" indicates that a gun code entered on a firing-point card had no equivalent defining data among the gun-type cards. Often caused by typing errors or table overflow
- 6 "ERROR-BLANK TARGET ID, HIT FLAG NOT SET. FIRING PT. _ " indicates that the demolition flag for a firing point has not been set and that no target has been specified for it. One of the preceding must be included
- 7 "ERROR"-LOF ENCOUNTERED WITHE READING GUN TYPE DEFINITION CARDS" indicates that an error was encountered while reading the gun-type cards instead of at the end of the data set
- 8 "ERROR--NO POSITIVE CHARGE FOR GUN TYPE \underline{x}^p indicates that a gun with code \underline{y} has been defined with all zero or negative charge sizes. Improper definition.
- 9 "ERROR-- χ NEG CHARGES ENCOUNTERED" indicates that \underline{x} number of negative charge sizes were found among the gun-type cards
- 10 "WARNING--x CHARGES LARGER THAN". LBS" indicates that x number of charge sizes were greater than a given size. Currently the message is for 50 lb (23 kg).
- 11 "ERROR--DUPLICATE ID: FIRST OCCURRENCE USED FOR TABLE" indicates that the same firing point ID occurs in two (or more) places in the input data. Information from only the first appearance is used by MAP in the cross-reference tables. In this case, a new ID (such as "jj") will be generated and used in the cross-reference table for this firing point.
- 12 "WARNING--EXTRANEOUS DATA STARTING IN CARD COL., $\chi_{\rm G}$ CHECK ALL FIELDS" indicates that characters for this definition card are found in columns where they are not supposed to occur. This error is sometimes caused by an overturned card or a missing FP1 card. This message can be suppressed.
- 13 "FRROR-HEIGHT CORRECTION DATA OUT OF RANGE" indicates that the specified height correction factor is too big. Sometimes caused by typing the height correction factor in the wrong column, causing a shift in the decimal point.
- 14 "WARNING-DUP-POINT IDENTICAL COORDINATES" indicates that the same point has occurred a second time in the input data. Caused by different IDs for the same coordinates.

- 15 "FRROR--TARGETS EXCEED TABLE LIMIT IN MAP, ONLY FIRST & USED FOR SUBSEQUENT CROSS-CHECKING" indicates too much input data; only the first x is allowed in the table.
- 16. "ERROR--FIRINGS DATA NEGATIVE OR BOTH ZERO ON DEF CARD FOR FIRENG POINT x^p indicates that no rounds or negative number of rounds have been specified for the amount fired per day and night for firing point x. Caused by blanks in both the day and night columns on a FP2 card, or entry of a negative number.
- 17 "FRROR--INVALID CHARGE NO." NONPOSITIVE OR NO GUN TABLE ENTRY, DEF CARD FOR FIRING PT" a indicates that a gun for firing point x has been improperly defined with a negative or zero charge size for the specified range, or that the charge range is wrong for the specified gun type
- 18 "WARNING--LARGE HEIGHT IN DEF CARD FOR FIRING POINT x" indicates that the specified height correction factor is very hig. User should check accuracy of input data.
- 19 "FRROR--FIRING POINTS EXCEED TABLE LIMIT IN MAP; ONLY FIRST § USED FOR SUBSEQUENT CROSS-CHECKING" indicates that too much input data are given. Current limit is a
- 20 "WARNING--DUE TO PREVIOUS TABLE OVERFLOW, THE FOLLOWING CROSS-REFERENCE TABLE IS INCOMPLETE" indicates that one set of definition cards was too big, so MAP used only part of it in making the given table.
- 21. "ERROR--DUPLICATE ID, COORDINATES; DEF CARDS CHECKED FOR ERRORS. BUT OTHERWISE IGNORED" indicates that the same firing point has been specified more than once. MAP ignores data for uses in cross-reference tables, but checks data for validity.
- 22 "FRROR--DUPLICATE ID. DIFFERENT COORDINATES; TREATED AS SEPARATE ENTRY" indicates that the same firing-point ID is defined with different coordinates and is considered as two points. A new firing point ID (such as "j*") has been created and will be used in the cross-reference tables
- 23. "ERROR--NONPOSITIVE CHARGE NOS. ENCOUNTERED FOR FIRING PT._" indicates that the specified charge ranges are negative.
- 24. "ERROR--NONPOSITIVE TARGET CHARGE IN TABLE FOR GUN \underline{x} , DEF CARD FOR FIRING POINT \underline{y} " indicates that the projectile charge size for a given gun \underline{x} specified for a firing point \underline{y} is negative or zero
- 25 "ERROR--MISSING DATA BASE FILE; EXECUTION ABORTED" indicates that a USFR'S RUN program was created without an input data section being provided.

Subroutine PGRID

This routine outputs a rectangular printed grid of CDNL values as specified by the user in BOUNDS.

Input module instruction cards, TAPE8 (read in by READIN), FAPE20 (read in by READTB). Function/method

- I Reads from the module instruction cards the grid size, percent inversion values, choice of day or night calculations, or sets the defaults. Outputs the values read in and the limits of the grid area as set by BOUNDS.
- 2 Superimposes a grid on the specified area by dividing it into squares according to the size specified by GRIDSIZE.
- 3 CALCNR is called for each integral grid point within the specified area. The CDNL values are printed out in matrix form and output to TAPEL for use by PLOT.

Subprograms/routines called READIN, CALCNR, BDSFT, READIB; Fortran functions AMOD, MOD, CDC routines EOF, SECOND

Output printed report. I APLI

Error diagnostics

- 1 """WARNING SPECIFIED BOUNDS x,y, x,y DO NOT CORRESPOND TO INTEGRAL GRID BOUNDS MODIFIED BOUNDS WILL BE USED TO PRODUCE THE GRID AND TO DEFINE ANY PLOT UTILIZING THIS GRID" indicates that the grid size specified by the user does not divide the bounds evenly. PUDDLE GRID extends the bounds, so grid size will divide evenly. (See PLOT errors)
- 2. "***WARNING--GRID SIZE NOT MULTIPLE OF " indicates that a possible inappropriate grid size was chosen by the user
- 3 "***ERROR--MISSING INPUT DIRECTIVE JOB ABORTED" indicates that one of the module cards is missing

Subroutine PLOT

This routine combines all of the output from other modules into one tape for use by NASAPLOT Input—module instruction cards, TAPET (from PUDDLE GRID), TAPE2 (from BASE), TAPE3 (from LOCATOR), TAPE4 (from SCATTER)

Function/method

- 1. Reads which module output to use from instruction cards.
- 2 Reads plot parameters for use by NASAFLOT.
- 3 Reads appropriate files and outputs all to TAPE55 for use by NASAPLOT

Subprograms/routines called Fortran functions, ATAN, COS, SIN, SQRT; CDC routines EOF, DATE, SECOND, TIME, GETIN.

Output printed report, plot

Error diagnostics

- 1 "THE FOLLOWING FILES WERE REQUESTED BUT NOT AVAILABLE, JOB ABORTED," indicates that output from BASE, SCATTER, LOCATOR, or PUDDLE GRID was requested in the PLOT module without having been produced previously by one of these modules.
 - 2 "WARNING PUDDLE GRID BOUNDS DO NOT MATCH SPECIFIED BOUNDS.

PGRID VALUES USED	SPECIFIED BOUNDS
A	A2
В	B 2
('	C ²
()	D2

This message indicates that the user specified one set of bounds while PUDDLE GRID used some other values usually as a result of the specified grid size. For example, if the x values of bounds were 20,000 and 43,000 and if the grid size was 2000, then the new bounds are 20,000 and 44,000 since the difference between the two must be a multiple of 2000. This error can also occur if PUDDLE GRID was saved on disk and the program later run again.

Subroutine POINT

This routine will $(ai) \neq CDNU$ and as it individual points as specified by the module instruction cards

Input Module sustraction at the LapeN (read in by READIN), Tape20 (read in by READIB). Lapet(method)

1. Reads and catenate from the module instruction cards the percent inversion values, choice of day, or night calculations.

2. Reads the coordinates and names of the desired points. Reads each point as it calculates the CDNL and outputs it

Subprograms/routines called CALCNR, READIN, READIB; CDC routines SECOND, EOF Error diagnostic none.

Subroutine READIN

This routine reads the data on TAPE8 into arrays in COMMON for use by other modules

Input: TAPE8

Subprograms/routines called none

Error diagnostic none

Subroutine READTB

Input TAPE20

Function/method reads TAPE20 (TABGEN) tables; corrects it to new inversion factors.

Subprograms/routines called. Fortran function ALOG; CDC routine EOF

Error diagnostic none

Subroutine SCATTR

Input module instruction cards, TAPE7 (data base).

Function/method—this routine will write text eards out to tape so that the PLOT routine can plot them out as a scattergram. There will be one dot for each noise source that occurs per day for the data which are allowed by the specification cards. The dots of the scattergram will have a normal distribution with a standard deviation equal to the distribution value (found on specification card). The center of the normal distribution will be at the target or firing point location. No dots will be allowed outside of the limits established by the routine BOUNDS.

Subprograms/routines called: SCATPL; Fortran function SQRT, FLOAT; CDC routines EOF; SECOND

Output printed report, TAPF4

Error diagnostics

- I "***FRROR--TARGET TABLE OVERFLOW: EXECUTION ABORTED" indicates too much input data. Current limit is
- 2 "****FRROR--FRROR IN DATA BASE UNDEFINED TARGET ID--, EXECUTION ABORTED" indicates that a target point ID is given with no following defining information.
- 3 "***WARNING--EITHER TARGETS OR FIRING PTS MUST BE REQUESTED; EXECUTION CONTINUES WITH DEFAULT = BOTH"
- 4 "***FRROR--PREMATURL EOF ON TAPE 7, EXECUTION ABORTED" indicates that a "789" specification is encountered in the wrong spot
- 5 "***ERROR-GUN OPTION SELECTED BUT NO GUN TYPES SPECIFIED EXECUTION ABORTED"

Subroutine SCATPL

Generates the scattergram dots

Subprogram/routines called CDC routine RAND

Output TAPE4

Error diagnostic

I "***WARNING-GENERATED SCATTER POINT FOR LOCATION X, Y OUT OF BOUNDS AFTER N TRIES PT IGNORED." The computer could not generate a scatter point for location X, Y without it going outside of the limits set by BOUNDS. The point has not been plotted. A target or firing point may be too close to the limits set by BOUNDS.

Subroutine STOPP

Stops the program.

Subprograms/routines called none
Output Tape \$5, printed report.

Error diagnostic none

Program TABGEN

TABGEN creates the tables of decibel values at given distances which are used in the calculation of CDNL by CALCNR. The tables are stored on TAPE20 and listed in Table 20.

Program NASAPLOT*

This section presents the control cards involved in the NASAPLOT contour program used by the Blast Noise Prediction program. It describes some of the aspects involved in the creation of the plot by computer methods. The NASAPLOT contour program operates in four distinct phases which can occur in or out of sequence. Program control can be initialized, transferred from one phase to another, and terminated by means of certain control cards. A description of these cards and their formats follow.

Job Card

cc 1

Format (A4)

The JOB card must precede all data cards of a job. It is the initialization card for each job.

PHS1 Card

ec 1 PHS1

Format (A4)

The PHS1 card transfers control to Phase 1 of the program. Phase 1 introduces dimensions of the plot size, requests for a new plot page, angles of skew and rotation, map size, scale and position of origin, map scale factor, and parallax parameters. Phase 1 control cards are as follows:

CSYS Card

 $\begin{array}{ccc} cc \ l & 7 & 14 & 15 & 22 \\ \hline CSYS & SKEW & ROTATE \end{array}$

Format (A4,2X,2G8.3)

where

SKEW (col 7-14) is the rotation of the Y-axis in degrees; default angle is 0°

^{*} Source: National Jensey the Lead Space Jahren Francis (VAST) Families Research Center Hampton, VA

ROTATE (col 15-22) is the rotation of the X-axis in degrees; default angle is 0°

The CSYS card allows the user to use and specify a skewed and/or rotated coordinate system for the data control point. SKEW is the angle of skew, measured clockwise, and ROTATE is the angle of rotation measured counterclockwise, as illustrated in Figure 8. The shaded area in Figure 8 corresponds to values of X between XMIN and XMAX, and values of Y between YMIN and YMAX. The point (X,Y) will be plotted as plotter position (XP,YP).

where

PRLX Card.

Format (A4.2X.3G8.3)

where

XPRLX (col 7-14) is the offset in X direction

YPRLX (col 15-22) is the offset in Y direction

ZREF (col 23-30) is the altitude to be used as the reference plane; default value is 0° .

The PRLX card allows the user to introduce angles of parallax. This feature can be used to produce pairs of contour diagrams of the same data for stereo viewing. A stereo pair is produced by using the following procedure.

- 1. Use the MAPS card and the PRLX card for the first stereo view
- 2. Plot the first view by means of the PLOT card
- 3. If the two views are not to overlap, but are to be plotted side by side, use the MAPS card again to move the second view to a different position on the plotter page.
 - 4. Use the PRLX card for the second view
 - 5. Use the PLOT card to plot the second view.

MAPS Card

Format (A4,2X,8G8 3)

XSCALE (col 7-14) is the scale factor in the X direction; default value is 1.0 units per inch of plot

YSCALE (col 15-22) is the scale factor in the Y direction, default value is 1.0 units per inch of plot XMIN (col 23-30) is the minimum X value to be plotted XMAX (col 31-38) the maximum X value to be plotted YMIN (col 39-46) the minimum Y value to be plotted YMAX (col 4" 84) is the maximum Y value to be plotted XOR (col 88.62) is the position on the plotter of the X origin, default value is 0.0 in.

YOR (col 63-70) is the position on the plotter of the Y origin; default value is 0.0

The MAPS card allows the user to specify the map size, map scale factor, and map origin parameters. The map will be determined for values of X between XMIN and XMAX and values of Y between YMIN and YMAX. The user may select the position on the plotter, (XOR, YOR), to which the point (XMIN, YMIN) will correspond

SCLE Card

cc 1 7
SCLE PSCALE

Format (A4,2X,G8.3)

where:

PSCALE (col 7-14) is the plotter scale factor; default value is 1.0.

The SCLE card allows the user to specify a scale factor, PSCALE, by which the map scale is multiplied before plotting. This scale factor is often used (in addition to XSCALE and YSCALE) to produce intermediate smaller size versions of a map, for consideration before a final full-scale version is attempted. The introduction of this scale factor does not change the position (XOR,YOR) on the plotter to which the point (XMIN,YMIN) will correspond.

DIMT Card

cc l 7 15
DIMT XTABLE YTABLE

Format (A4,2X,2G8.3)

where:

XTABLE (col 7-14) is the plot length in X direction in inches

YTABLE (col 15-22) is the plot length in Y direction in inches.

The DIMT card introduces plot size parameters, and can be used only once per job.

PAGE Card

cc 1

PAGE

Format (A4)

The PAGE card allows the user to split the map into matching sections and to plot each section on a separate plotter page.

PHS2 Card

cc 1

PHS2

Format (A4)

The PHS2 card transfers control to Phase 2 of the program. Phase 2 accepts control points and computes the grid. Input unit, format, order for control points to be read, and grid mesh point insertion values are introduced. Phase 2 control cards are as follows:

CNPT Card.

Format (A4, 2X, 13, 412, 5A10)

For control points being read from tape

For control points being read from cards

where:

The CNPT card allows the user to specify the format and the order of the X, Y, and Z coordinates of control points, as well as the input device used. NOTE: If control points are to be read from a RECIN tape, the data must be requested as TAPE9 on the tape request card. Input is terminated by an EOF on TAPE9.

GRID Card

Format (A4,2X,218,13)

where

NROWS (col 7-14) is the number of rows (maximum 99, right justified)

MCOLS (col 15-22) is the number of columns (maximum 99, right justified)

NGH (col 23-28) is the number of neighboring points to use in determining the values at the grid points (maximum 10, right justified).

The GRID card causes a rectangular grid (parallelograms, if the coordinates are skewed) to be defined. NROWS and MCOLS are specified by the user -- there are NROWS times MCOLS grid cells, and (NROWS + 1) times (MCOLS + 1) mesh points in the grid. The grid mesh point values can be determined from control point input data, in which case NGH (on the GRID card) is used to specify the number of nearest control point neighbors to be used in calculating each grid mesh point value.

GRDI Card

where

 cc 1
 7
 15
 23

 GRDI
 KROW
 KCOI
 VAL
 Format (A4,2X,218,G8.3)

KROW (col 7-14) is the row requested (right justified)

KCOL (col 15-22) is the column requested (right justified)

VAL (col 23-30) is the value to be inserted.

The GRDI card is used to insert a value at a grid mesh point. The GRDI card must be used first to define the grid (the value of NGH is irrelevant in this case, and should be left blank), and then the GRDI cards may follow. NOTF—A combination of computed and inserted values at the grid mesh points is also allowed, in which case inserted values take precedence over computed values.

CPST Card.

cc 1	7	15	23	25	
CPST	HCEN	" HNUM "		ĪĊ	Format (A4,2X,2G8 3,2I2)

where

HCEN (col 7-14) is the height of the center mark

HNUM (col 15-22) is the height of the numbers

ND (col 23-24) is the number of digits (right justified)

IC (col 25-26) == 0 for center marks only 1 for center marks and numbers (right justified)

The CPST card allows the user to cause control points and altitudes to be posted on the map Either the center marks (±) may be posted alone, or both the center marks and the values may be posted. The size of the center marks and the height of the numbers can both be selected by the user

NOTE: The CPST card must follow the GRID card

GPST Card

cc 1 7 15 23 25 GPST HCFN HNUM ND IC Format (A4,2X,2G8.3,212) where

HCEN (col 7-14) is the height of the center mark

HNUM (col 15-22)— is the height of the numbers

ND (col 23-24) is the number of digits (right justified)

IC (col 25-26) = 0 for the center marks only

= 1 for center marks and numbers (right justified).

The GPST card allows the user to cause the grid mesh point values to be posted on the map Fither the center marks (+) may be posted alone, or both the center marks and the values may be posted. The size of the center marks and the height of the numbers can both be selected by the user NOTE: The GPST card must follow the GRID card.

PHS3 Card

cc 1

PHS3

Format (A4)

The PHS3 card transfers control to Phase 3 of the program. Phase 3 plots contour lines and performs masking. Phase 3 control cards are as follows:

MASK Card

cc 1 7

MASK NPTS

Format (A4,2X,18)

where

NPTS (col 7-14) is the number of points used to define the mask boundary.

The MASK card, used in conjunction with the MSKB card, allows the user to mask out areas within the rectangular boundary of the plot where contours are not to be plotted. This feature can be used to blank out portions of the map where the data are inaccurate or incomplete or to save certain areas for later contouring with different data. The boundary can define several independent regions, with or without holes, by choosing a boundary path appropriately. The boundary path can consist of line segments alone which the boundary path traverses in both directions. Figure 9 is an example of a boundary defining two independent regions, one of which contains a hole. The contours will be plotted in the area defined by grid cells whose centers are within the masking boundary (Figure 10). The MASK card specifies the number of boundary points contained by the MSKB cards.

MSKB Card Format (A4,2X,8G8.3)

1 7 15 23 31 39 47 55 63

MSKB XVAL(1) YVAL(1) XVAL(2) YVAL(2) XVAL(3) YVAL(3) XVAL(4) YVAL(4

where

XVAL are the X coordinates of the masked area.

YVAL are the Y coordinates of the masked area.

The MSKB cards specify the coordinates of the boundary points. The boundary points must be introduced sequentially, such that the boundary is defined by the line starting from the first point and passing through each successive boundary point, and ending with a line between the last boundary point and the first. The boundary will thus form a closed curve within which contours will be plotted.

PLOT Card

Format (A4,2X,2G7.0,2G6.0,15.14,312,5G4.3,11,G4.3)

cc	1	7	14	21	27	3.3	38	42	44	46
	PLOT	ZMIN	ZLMIN	DΖ	DZL	NLEVS	KLEV	L1	L2	ID
		48	52	56	60	64	68	69		
		DISL	HGIL	DIST	TLNG	TLER	·	SKIP		

where:

ZMIN (col 7-13)	is the minimum contour level
	requested

L1 (col 42-43) is the line format for every contour line other than the KLEV contour line, values and line format are as follows (right justified):

 $\pm 1 = a$ solid light line $\pm 2 = a$ solid light line with

± 2 = a solid light line with tick marks on one side

± 3 = a solid light line with tick marks across the line

+ 4 = a solid bold line

+ 5 = a solid bold line with tick marks on one side

± 6 = a solid bold line with tick marks across the line

+ 7 = a dashed line

Positive values include a label; negative values do not

1.2 (col 44-45) is the line format for the KLEW contour line; values and line formats are the same as for L1

ID (col 46-47) is the number of digits after the decimal point in the label. If ID = 1, the decimal point will be omitted, values are right justified

DISI (col 48-81) is the distance (in inches) along a contour line from its beginning to its label.

HGTL (col. \$2.88)—is the height (in inches) of the characters in the label

DIST (col 86.89)—is the distance (in inches) between dashes, for dashed lines, or between tick marks, for lines with tick marks.

11 NG (col 60 63) is the length (in inches) of tick marks, if 11 NG is positive, the tick marks will be on the upfull side of the line, it it is negative, the tick marks will be on the downfull side.

ITER (col 64-67) is the tolerance distance (in inches) used in straight line of circular arc smoothing, one-third grid size recommended

(col 68) 0 for no smoothing, I for straight line smoothing; 2 for circular arc smoothing

SKIP (col 69-72) is the tolerance for skipping where contour lines are so close as to be indistinguishable, a positive value for SKIP will cause light line or dashed lines to be skipped if the distance between them is not greater than the SKIP value (in inches).

The PLOT card defines the type of contour line to be plotted, as well as the levels (altitudes) for which it will be plotted. A numerical label can be plotted for those contour lines which are sufficiently long. Each successive contour line plotted will be at level ZMIN + 1 times DZ, and each corresponding numerical label will be ZLMIN + 1 times DZI, where I assumes integer values from 1 to NLEV - 1. Line formats and the distance between dashes, for dashed lines, can be selected by the user, and is specified by the PLOT card. The distance between tick marks, the length of the tick marks, and whether they are on the uphill or downhill side of the line (for lines with tick marks), can be selected by the user, and are specified by the PLOT card. The PLOT card also permits the user to request that light contours be skipped whenever the distance between them does not exceed a distance specified by the user. This feature is useful in improving the intelligibility of the map.

The PLOT card also allows the user to choose a smoothing option. A contour line originally is composed of a sequence of straight line segments. It will be plotted as such, unless the smoothing option is used. Smoothing will effect either a rounding or cutting of the corner between successive straight line segments. Smoothing is accomplished such that the deviation of the smoothed contour line from the original contour line is always less than or equal to a tolerance distance specified by the user on the PLOT card. Either of two types of smoothing can be specified by the PLOT card: (1) straight line smoothing, which effects a cutting of the corner between contour segments; or (2) circular arc smoothing, which effects a rounding of the corner between contour segments. (In Figure 11, a pair of contour segments, A and B, adjoin at point P.)

Straight line smoothing in Figure 11 replaces the corner at P with a straight line segment from point P1 (on X) to point P2 (on B), such that P1 and P2 are each a distance C from P. C is deter mined such that the distance from P to the line from P1 to P2 is less than or equal to the tolerance dis tance specified by the user. Comust also be less than or equal to one third of A and less than or equal to one third of B. Gigure 124.

Circular are smoothing replaces the corner at P with a circular are tangent to both A and B at points P1 and P2 respectively. The circular arc from point P1 to P2 is determined such that the dis tance from P to the arc is less than or equal to the tolerance distance specified by the user. Furthermore, the distance from P to P1 must be less than or equal to one-half. A land the distance from P to P2 must be less than or equal to one half B (Figure 13).

PHS4 Card

cc 1

PH54 Format (A4)

The PHS4 card transfers control to Phase 4 of the program. Phase 4 plots special lines and text on the map and draws a border on the map. Phase 4 control cards are as follows

LINE Card Format (A4,2X,6G8,3,12). 1 > 47 55 cc 1 73 31 39 ¥ 1 71 X2Y2 12 LINE 10 where

X1,Y1,Z1are the coordinates of the starting point

X2,Y2,Z2 are the coordinates of the ending point

IC(col(55-56)) = 0 use plotter coordinates = 1 use map coordinates (right justified)

The LINE card is used to draw a line on the contour map. Z is needed only for parallax drawing

TEXT Card

Format (A4,2X,5G8 3,12,2A10,A4)

X1, Y1, Z1the coordinates of the first character of the text string

HEIGHT (cot 31-38) is the height of the characters

ANGLE (col 39-46) is the angle for text string to

be plotted

(col 47-48) IC = 0 use plotter coordinates

I use map coordinates (right

justified)

ITEXT (col 49-72) the character text string (left justified)

The TEXT card is used to draw annotation on the contour map; orientation and character size can be selected by the user

CIFX Card

cc 1

CHX IIIXI

Formar (A4.2X 6A10) At

where

III XI (con 2002) is the character text string to be continued (left justified).

. The CTEX card is used whenever the text string overflows either a TEX1 card or more \sim CTEX card.

BRDR Card

...

BRDR

Lornic X4

The BRDR card is used to draw a border around the rectangle (paralelogram of the z and nates are skewed) containing the map

FND (ard

cc l

END

Format A4+

The end card ends phase control of a job

STOP Card

cc 1

STOP

Francis (XI)

The STOP card stops all processing

The NASAPLOT contour program allows certain options, such as map spitting and exp. at a views, and has the capability to process multiple jobs and to produce multiple obsputs, and piots with a single job.

If the user wints a map size that is too large to fit on one plotter page, then he may see $c^* = s_0$, the map into matching sections and plot each section on a separate protter page. The following percedure is required to split a map

- 1. The DIME card is used to specify the plotter table size and to induate the first page
- 2. The MAPS card is used to specify the map section
- 3. The GRID card is used to grid the map section
- 4. The PLOT card is used to plot the map section
- S. Control is transferred to Phase I to start the next section, and the PAGI card is ascell request a new plotter page.
 - 6. Steps 2, 3, and 4 are repeated
 - ² If an additional section is required, steps 5 and 6 are repeated

Note that for a perfect match between sections, it is necessary to grid the sections such that the X distance and the Y distance between grid mesh points is unchanged in each successive section.

The user may produce, in the form of a separate map, an exploded view of any rectangular (parallelogram, if the coordinates are skewed) area of the map. The following procedure is required to produce an exploded view.

1. If a border is to be drawn around the area of interest on the original map, the LTNF card is used to do so

- 2. Mer the original map has been plotted, the MAPS card is used to specify the area of interest and the new (XOR, YOR) for plotting the exploded view.
 - 3. The SCLF card is used to specify the factor by which the area will be exploded.
 - 4. The PLOT card is used to plot the exploded view
 - 8. It a border is to be drawn around the exploded view, the BRDR card is used to do so

The NASAPLOL contour program can process several jobs in one computer run. The program control cards corresponding to each job are stacked, with a JOB card at the beginning and an END card at the end of each job. A STOP card is required at the end of the deck (after the last END card). This program has been implemented such that the user can effect any number of manipulations and obtain any number of outputs and plots within a single job. The stereo, map splitting, and exploded view capabilities are examples of ways to obtain more than one plot within a single job. The program accepts any number of its control cards in any sequence within the logical constraints described in the PROGRAM CONTROL CARD section of this chapter. Control can be transferred from any phase to any other phase, and the map, grid, and control point parameters can be manipulated and plotted as many times as is desired within a single job.

Table 19 Common Blocks

Subprograms	
Routines	Block Names
LCDN	ANGLE BOUND CALC DEBUG LT GRID TO METRIC PARM PLOTOM SRCS
BASI	BOUND TO
BOUNDS	BOUND TO
FORMA	DEBUG ET GRID GUN TO SRCS TABLE CONTR
LOCATR	IO BOUND
MAP	DEBUG 1T GRID TO
PGRID	BOUND CALC DEBUG FACTI IT TO METRIC SRCS
PLOT	BOUND TO METRIC PLOTCM
SCATTR	BOUND TO
STOPP	10
CALCNR	CALC DEBUG FACTI ET GRID GUN IO METRIC PARM SRCS TABLE CONTR
BDSFT	
JBRET	JOBBLK
PUTNR	J ()
READIN	DEBUG ET GRID TO SRCS
RLADIB	DEBUG FACTE TO PARM TABLE
SCATPL	BOUND TO
POINT	BOUND CALC DEBUG LACTEET TO METRIC SRCS

Table 20 TABGEN Output

TABLE GENEMATION PROGRAM -- 74.20 8.60 18.67 PERCENT INVERSION

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	S.OOMILE 10.OOMILE		16093.44	191.56
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134.5 135.9 131.3	127.4 123.1 118.7	112.8		0 d	3 3 3 4 4 6
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138.9 135.3 131.7					
139.1 135.5 141.9	123.7 119.4	113.P			2 -
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139,4 135,9 132,3					
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139.9 1 136.4 1 132.8 1					
140.1 136.6 133.0	125.	115.	0 0 0	- a	. v . v.
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										138.2	134.7	130.7	125.3	120.5	115.1	108.7	101.0	7.1	93.5	89.1	85.5	85.5	19.5	76.6	
										138.4	134.9	131.0	125.6	150.4	115.4	109.1	105.1	0.40	93.7	80.3	A5.4	A2.6	79.7	7.97	
										138.6	135.1	131.3	155.9	150.7	115.6	7.601	102.3	98.1	93.9	8.0 ¥	A5.8	A2.8	79.B	16.9	
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												133.7 1														
												133.9 13														
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											137.7	134.2	130.2	124.9	119.3	113.6	106.4	9.80	93.4	88.5	85.2	81.7	77.8	73.8	0.04	
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											134.3	129.1	123.9	118.4	113.1	107.9	101.3	0.70	A9.3	9.49	81.2	77.1	72.3	67.4	62.4	
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_	Z										135.1	129.9	124.7	119,2	115,9	108.7	102,5	6.76	90.0	85,3	A1.7	77.7	73.0	68.1	63.2	
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	-19										136.2	131.0	125.A	120.3	114.9	100,7	104.0	7.96	0.10	86.3	82.4	7 A . 6	74.0	69.1	64.2	
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Table 20 (Cont'd)

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137.2	133.5	129.8	155.7	150.2	113.8	107.5	101.2	96.3	91.6	99.1	87.1	A5.6	A4.2	82.7
137.4	133,7	130.0	125.9	150.5	114.1	107.8	101,5	96.6	41.7	89.5	87.2	R5.7	84.3	A2.8
137.6	133.9	130.2	126.1	120.8	114.4	108.1	101.8	96.8	0.26	40.0	A7.3	85.8	84.3	95.9
137.7	134.1	130.4	126.3	121.1	114.8	108.4	102.1	97.1	92.2	89.5	47.4	A5.9	84.4	82.9
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138.1	134.4	130.7	126.7	121.8	115.4	1001	102.7	97.6	92.7	69.7	87.5	A6.0	84.5	A3.1
138.3	134.6	130.9	126.9	122.1	115,7	109.4	103.1	97.8	92.9	6.0	87.6	A6.1	9.7	83.2
138.5	134.8	131.1	127.1	122.4	116.0	1001	103.4	98.1	93,2	0.06	87.7	86.1	A4.7	83.2
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Table 20 (Cont'd)

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	0.0	0.0		7.	-:	6.4	9.	7.6	5.6	3.1	3.1	3.1
47 49.40 191.50 191.56 239.27	00.	0		٤.	(	. o.	9.6	٥.	0.0	3.1	3.1	3,1
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00 • 00	0.0	o •	 -	۳.	۲.	- J	. e	¢.	8.3	3.1	3.1	3.1
<b>⊢</b> ← <u>u, u, u</u>	000	c •	0.1.	~.	•	<del></del>	9.3	9.6	8.6	3.1	3.1	3.1
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Table 20 (Cont'd)

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25.1 25.1	25.1	29.8 23.2	20.5	22.7	20.62	31.2	30.0	30.0	§ი•0
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Table 20 (Cont'd)

49.40 79.50 121.66 151.77 191.56 221.66 239.27

21 304.80 409.80 1609.34 1609.34 1609.44 16093.44 24100.16 23

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72.7	72.7	61.0	61.E	53.3	10.0	34.7	32.2	32.1	12.1
72.7	72.7	611.5	63.9	5.1	31.0	w w w e v o	32.2	32.1	32.1
72.7	72.7	61.0	61.1 63.8	20.0	37.1	20 20 20 20 20 20 20 20 20	32.3	32.	32.1
12.7	72.7	62.4	61.0 53.6	\$5.8 10.5	37.2	34.0	\$2.3	32.1	32.1
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72.7	72.7	63.5	60.7 53.a	51.5	47.4	15.1	32.3	32.1	32.1
72.7	72.7	63.7	63.2	58.3	37.6	35.2	32.4	32.1	32.1
72.7	72.7	94.1	63.1	59.1	37.7	3. 5. 5. 5. 6. 6. 5. 6. 6.	32.4	32.1	32.1
72.7	72.7	9	60.3	60.0	37.8	35.5	32.4	32.1	32.1
72.7	72.7	65.0	60.24 42.8	8.00	37.9	35.6	32.5	32.1	32.1
72.1	12.1	65.5	60.0	61.7	38.0	75.7	32,5	32,1 32,1	32.1
12.1	12.7	62.4	59.9	62.5	4 P	35.8	32.5	32,1	32.1
72.7	72.7	000	5.9°A	63.3	38.2	35.0	32.5	32.1	32.1
72.7	12.1	, Q	50.0	2.70	7 W	36.0	32.6	32.1	32.1
72.7	72.7	67.3	50.5	9 0	, ac	36.2	32.6	32.1	32.1

22 047 EX NEG PERCENT 304.80 49.40 609.60 79.50 1609.34 121.66 3218.69 151.77 8046.72 191.56 16093.44 221.66 24140.16 239.27

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0AY Ex NEG PERCENT
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2.2	3.7	11.5	36.5	23.55 23.55 23.55 24.55	171 171
5.5	3.5	11.3	36.7	0 4 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2 2 C C C
2.2	3.3	14.8	37.0 37.0	26.1 26.1 27.1	www err aaa
2.2	2.2 3.1 7.1	0 4 0	37.2 33.1	20.3 21.9	333 343 343
2.2	~ ~ ~	10.7	37.4 33.3	24.0 31.0	2 2 2 2 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4
2.2	2.2	10.6	37.3 33.5	29.5 27.1 30.9	  
2.5	, v, v	10.1	3.00 3.00 3.00 3.00 5.00 5.00 5.00 5.00	20°7 27°5 30°4	2 2 2 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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2.2	~ ~ ~ ~ ~	13.5	3	8.75 8.45 8.85	W W W 7 7 7 7 4 4 4 4
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<b>~</b> : .\.	5. ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	13.1	33.1	30.7 27.8 8.75	4 4 4 3 3 7 4 6 6
<b>5.</b> 5	5.5 5.5 5.8		36.3	89.08 28.0 27.5	# # # # # # # # # # # #
2.5	5.2 5.2 5.1	12.8	35.1	51.1 24.1 25.4	w w w 3 3 3 4 4 4
2.5	~ ~ °	e. 5. 4 6. 4. 4	30.02	28.2 26.3	www and and and
2.5	2.5 2.5	12.4	30.2	21.5 25.9	**************************************

Table 20 (Cont'd)

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100.001										0.0	0.0	0.0	0.0	7.	1.6	3.1	5.4	<b>6.</b> 6	7.4	7.4	6.5	7 7	7.7	9.9
100										o c	c c	0.0	0.0	7.	1.7	3.2	5.5	6.7	7.4	7.4	<b>9.</b> 4	7.7	7.7	7.7
										0.0	0.6	0.0	0.0	٠,	1.8	3,3	5.6	6.7	7.4	7.3	₽•9	7 . 17	7	7.7
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E OF US	08.401	04.60	.09.34	114.09	24.40	193.14	40.16			0	0.0	0.0	0.0	•	». -	3.5	5.8	ď.	7.5	7.3	5.0	7.7	3.	7 7
rs 3 De 3 d	9	7	121	151	101	221	536			0.0	0.0	0.0	0	۲.	٠.	3.7	0.	ď.	7.6	7	5.7	7	<b>a</b>	<b>7</b> .
-	C7.	.5.0	36.	77	.56	90.	.27			0.0	0.0	0.0	Ū•0	۰.	ر. ح	3.8	6.1	ø.	7.6	7.3	5.6	7	3.	t t
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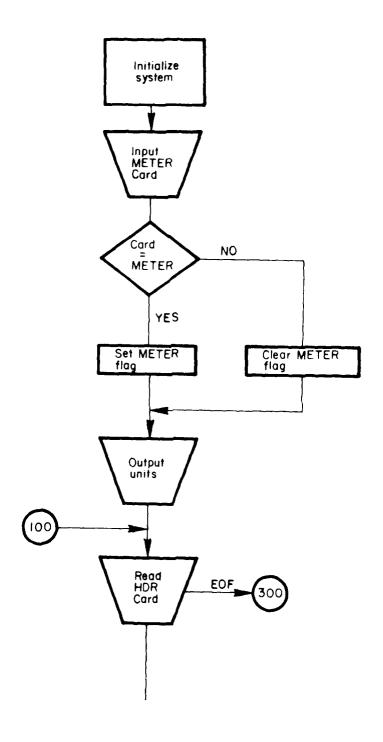


Figure 5 CDNI flowchart

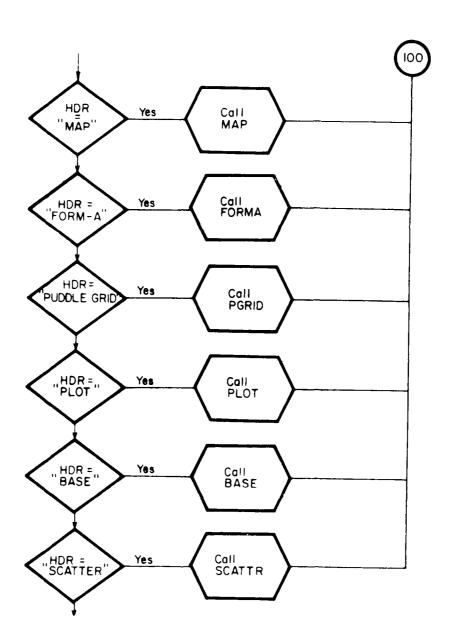


Figure 5. (Cont'd)

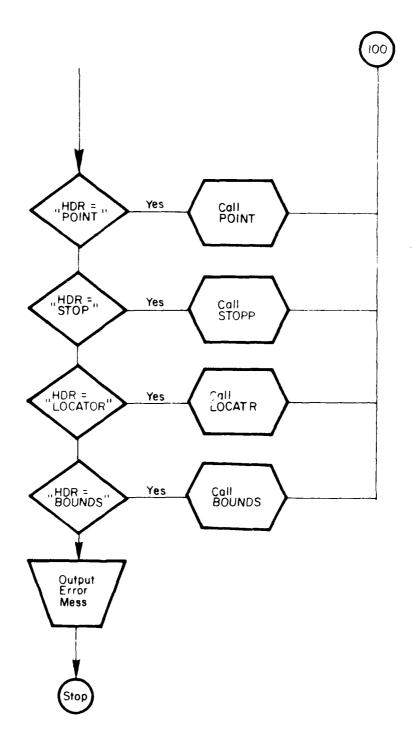


Figure 5. (Cont'd)

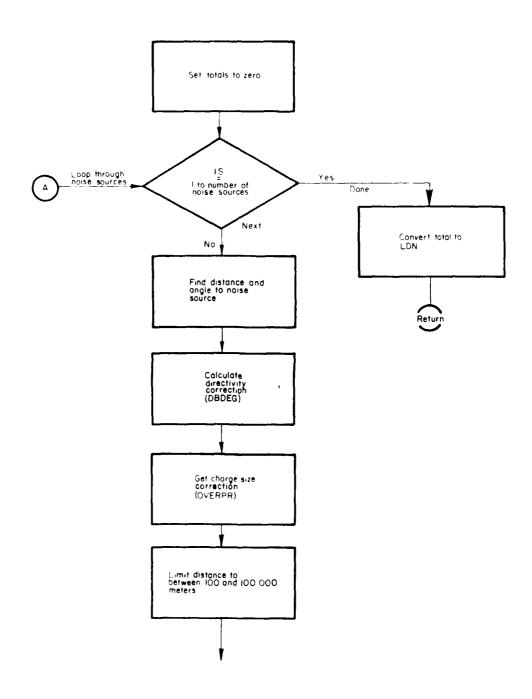


Figure 6 CALCNR flowchart

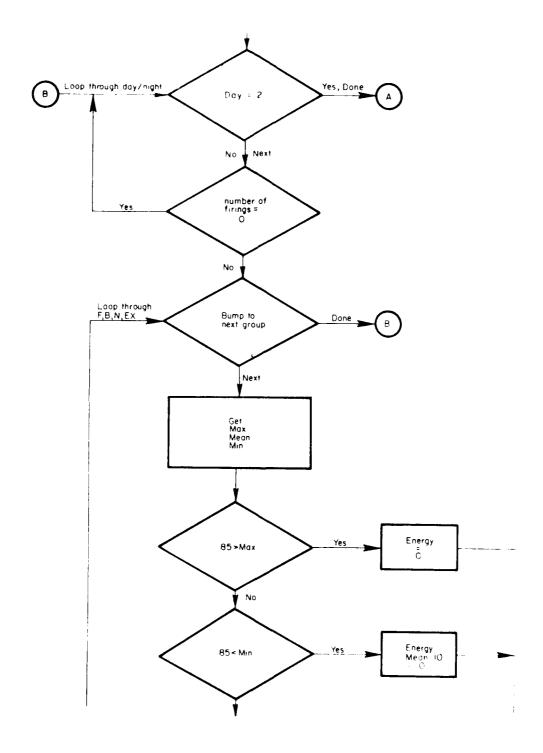


Figure 6. (Cont'd).

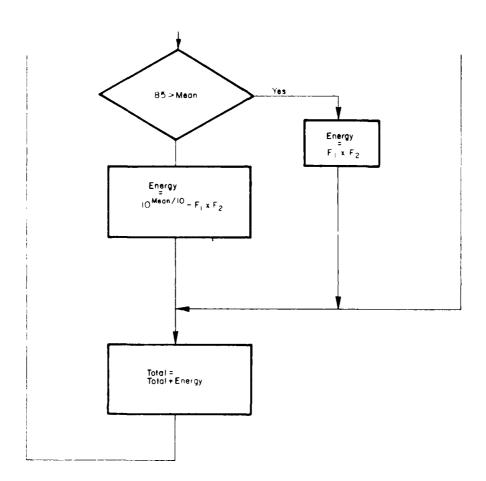


Figure 6. (Cont'd).

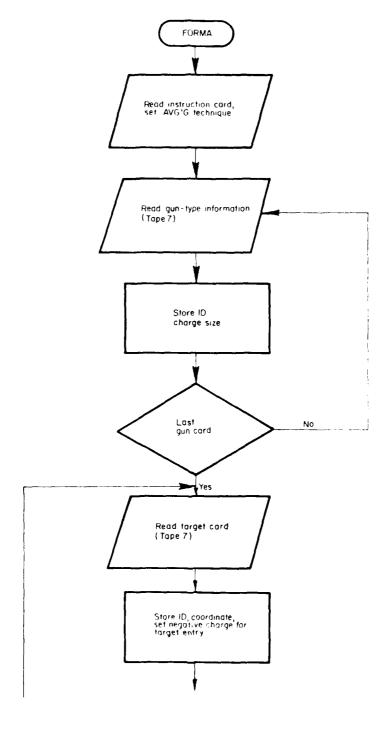


Figure 7 | LORMA flowchart

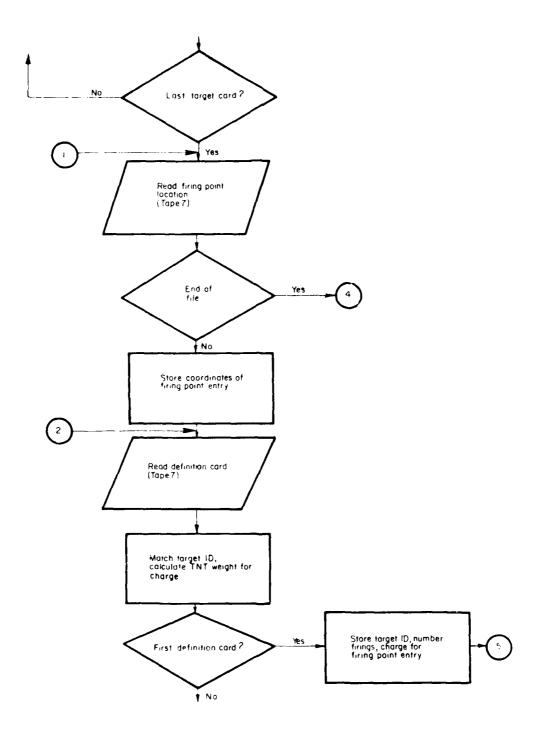


Figure 7. (Cont'd)

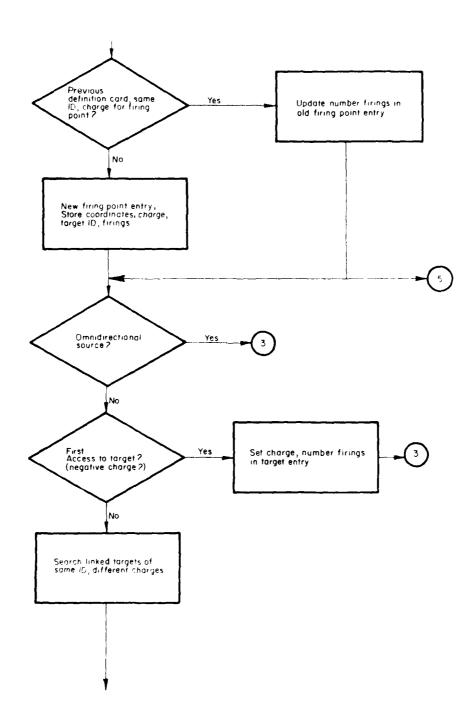


Figure 7. (Cont'd)

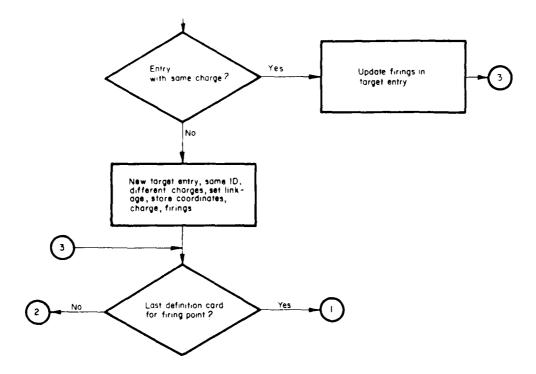


Figure 7. (Cont'd).

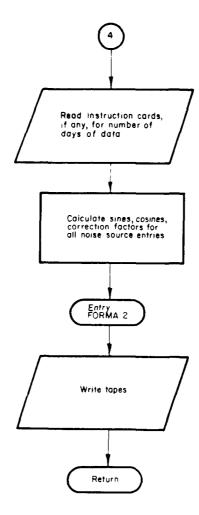


Figure 7. (Cont'd)

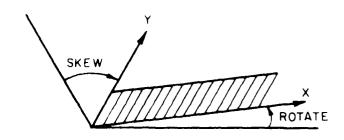


Figure 8. Determination of angles.

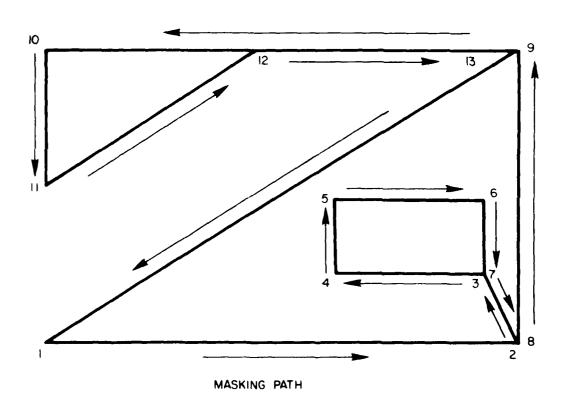


Figure 9 Masking path.

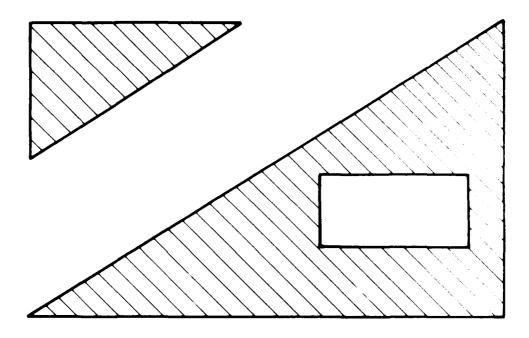


Figure 10 Contouring regions

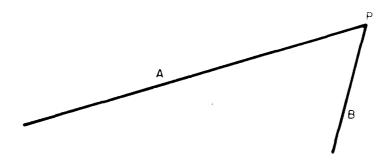


Figure 11 Pair of contour segments

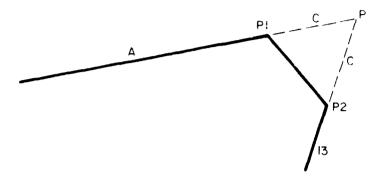


Figure 12. C as less than or equal to one-third of A.

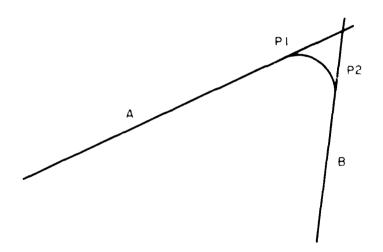


Figure 13 Circular arc smoothing

### 4 EXAMPLE OF A BLAST NOISE PROGRAM RUN

This chapter presents a sample run of the Blast Noise Prediction program and includes a manboth input and output. This example does not include data collection, but does show what is should do with the operational data when he has received at . The example also describes what is the user wanted from the sample data and the output that the computer produced as a reserve instructions.

#### Data Received

These data were obtained from the hypothetical installation "SHOW" for the month of its days). A map of the installation in metric coordinates (Figure 14) was received with the object of types of activities occurred during this time, and five sites were involved in these activities. We see the days from three firing points toward two target points.

The first activity used a 188-mm self-propelled howitzer (M109) to fire 160 ropells from 2 point 2 (located at coordinates 38000, 20000) to target point 2 (located at coordinates x)000 microscope One hundred and fifty of the rounds were fired during the day (0700 to 2200 hours), and 10 x pm/s at might (2200 to 0700 hours). Charge zones 4 and 8 were used for this weapon. The second which used an 81-mm mortal which fired 328 rounds from firing point 1 (located at coordinates 2000, 23000) to target point 2. Alf 328 projectiles were nonexploding, i.e., smoke or illumination. For handred of the rounds were fired during the day, and 28 were fired at night, using charge by first 5 to 7. The third activity involved demolitions at firing point 3, located at coordinates 32000, 25000. There were 100 daytime explosions, each of which set off 15 lb (6 kg) of ammunition. The last accordinate weapon (not listed in Table 2). It fired 17 night rounds from firing point 1.5 of 25 point 1 (located at coordinates 27000, 25000), using charge zones 3 and 4. All founds exploded 1.5 of (30 m) above the target. The user learned that this weapon fires a projectile containing 10.8 ibs (4.8.2) of explosive, and has six charge zones containing 1.2, 3.4, 5.7, 7.3, 9.2, and 12.1 lb (0.84) 1.84. Second 23.1, 4.17, and 5.49 kg) of propellant in zones 1 through 6, respectively, and that it had a 1.500 pattern which is the same as the 105 mm self-propelled howitzer (M102).

The user wants to generate a set of CDNL contours for this set of data and have an activities installation drawn on them for reference. In addition, he wants an indication of the activities are contides and locations.

### Creating the USER'S RUN

## ICL Caras

The user obtains an account number for his run. He then types a set of JCT cards with the rest of the cards in his deck.

### Input Data Cards

The first section of the deck is composed of the input data cards the user has contained to operational data he has received. For this example, there will be four sets of gun type on is a vipoint cards, and three sets of firing point cards.

Tables 3 to 8 provide information for the first three gun types, which correspond a consistency weapons in the example. The last weapon is not on the list, since it is not a standard weapon one force the user must create his own weapon code and gun type card for it from the antoring pair t = t received. (The gun type cards are shown in Figure 18.) A weapon code of 80 was chosen or all pair into columns 2 and 3 of that gun type card. (Cum Ed), the rest of the information was consistency appropriate columns as shown in Table 5. A 22 was placed in column. For card Cum 32 or t = t last gun type card. Following the gun type cards, target point cards (TRG last) was a reason guard. Table 6. Short target point names were made up to fit into the allocated columns.

I we types of cards are associated with each firing point of a fix of reperformance and location of the firing point. In the example, shortened firing point names were critical to be into the allocated columns. The location information which was recorded by the professional individual to the appropriate columns. Cards of type 1.9.2. Table of water after to rescribe infactivities occurring at each bring point. Each FP-1 card must have at lease of a matomic mass manner. I.P-2 cards associated with at Two activities which differ only in "not of day fitness of the option of trains." But which are idented in all other descriptions may be speed either a two activities. Since fainte point 1 had two weapons firm from a two I.P.2 cards were required to describe activities there. The first on (see Figure 15) described the special weapon (gun type [80]). It fires 1 might be a fix formula point 2 had not day rounds (columns 21 through 24). The minimum charge zone (columns 29 and 30) and maximum charge zone (columns 31 and 32) are 3 and 4 respectively. Die we goon was fired loward target point (TP1) (columns 33 dirough 38). All rounds exploded 100 ft (30) is above the ground (columns 37 through 41) at the a get point.

Card TP 2b described the 51 mm mortal (gun type 22). The number of mainus, charge zones and target point were typed into the appropriate columns. In addition, a 31-was typed in the incolors at target flag column, since the rounds were noiseless, i.e., smoke or illumination. The second bresh point had only one activity so only one EP-2 type card was required (DP 2c). This card described the activities of the 155-mm self-properal however (M109). The number of rounds it shoots, charge zones, and target point were typed at the appropriate columns.

The only activity at firing point is was demolition. A 154b (6-kg) explosive corresponds to charge zone 5 for the standard gunstype, and which has been created for small demolition (gun type 10). Card EP-2d described the demolition of a number of rounds and the minimum and maximum charge zones were typed into the appropriate course. The target point which was left blank, an once 10 in column 36 signified an omnidirectional noise of the firing point. Cards EP-2b, EP-2c, and EP-2d all had a 70 in column 1, since they were the last cards associated with each firing point.

The input data  $\phi > 0$  of the deck consisted of the gun-type, target point, and firing point definition cards

# Module Cards

The second portion of the deck consisted of the module cards, which tell the computer with a must do with the ciput aria. In this example, the data were checked and several types of piots we generated. The first plot (Figure 16) had an outline of the installation with target and firing points marked, along with the CDNL contours for the area. The second plot (Figure 17) had the installation outline and a noise density plot (scattergram).

All grid coordinates are given in metric units, so the first card (NET-1) must contain its specification. METERS. Next, a MAP-1 card invokes the MAP module, which checks the distribute produces cross reference tables. The MAP-2 card has a "1- in columns 1 through 5 tecquesting a"1- it the cross-referenced tables. The number of days (30) is entered on the MAP-3 card. Fig. MAP-4 card is set to "01- and MAP-5 is so to 250, since the cost is not of interest for this run. The BOLNDS module must be a voke-4 before most of the other modules can be entered. This is accomplished to the BDS-1 card. The coordinates of the lower left hand corner of the rectangular area under consideration are 14000, 0, the appearaght ones are \$1000-39000. These values are entered on cards BDS-2 in a BDS-3 respectively.

The BASE module is used to produce an earlier of the installation. In this example, the used assessmented a registration many (+) on the piot so that it could easily be overlaid on a map of the irea. The BASE module is invoked with the BASE is early. The horizontal registration line is defined with the BASE 25 and notion to outline. Since the line framework the installation scattage is connected only the last (BASE 25) and needs a 7 in column 25 to indicate the end of the lines. The BASE 25 and indicates a compression that there is no more input to the BASE modules.

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL F/G 20/1 BLAST NOISE PREDICTION. VOLUME II. BNOISE 3.2 COMPUTER PROGRAM --ETC! MAR 81 L L LITTLE, V I PAWLONSKA: D L EFFLAND AD-A099 335 UHCLASSIFIED CERL-TR-N-98-VOL-2 2 % 3

The FORMA and PUDDLE GRID modules must be included to produce a contour. FORMA must precede PUDDLE GRID, since PUDDLE GRID uses the output from FORMA. A FRMA-1 card is used to invoke the FORMA module. "MAX" is chosen as the parameter on the FRMA-2 card, since the user would like to investigate the worst case of his operations. The number of days (30) is typed on the FRMA-3 card. PUDDLE GRID may now be invoked with the PGRD-1 card. The closest city (both geographically and meteorologically) to the installation "SHOW" is Midland, TX. The inversion factors 65.8, 15.5, and 27.9 are found in Table 18. These values are entered into columns 1 through 10, 11 through 20, and 21 through 30 on card PGRD-2. The grid size chosen is 2000 m (columns 31 through 40, card PGRD-2). The SCATTER module, which is invoked with an SCT-1 card, generates a representation of the noise density by drawing dots in proportion to the number of operations. All day and night firing from both firing and target points will be considered. Thus, "T." "F." and "B" are typed in columns 1, 2, and 3, respectively, of card SCT-2. A multiplier of "2" is used to help represent the operations visually (columns 61 through 70, card SCT-2). The number of days (30) is typed on the SCT-3 card.

The LOCATOR module is invoked with LOC-1 card. It uses "0" and "X" to mark the locations of the firing and target points, respectively, on the plot. In the example, the user wanted both types of points marked, so "ALL" was entered on card LOC-2.

The first PLOT invoked with the PLT-1a card uses output from the PUDDLE GRID, LOCATOR, and BASE modules. This is specified by the "1" placed in columns 1, 2, and 4 of card PLT-2a. The user wanted the scale to be 1:50000, and contours to be drawn from 55 to 75 dB in 5-dB increments. Since those are the default values for these specifications on the PLT-3a card, the columns can be left blank. Columns 16 through 19 of card PLT-3a show that a 0.3 magnification will be used (this is done for reproduction purposes). No labeling is to be done, so cards PLT-4 and PLT-5 are omitted. The "*" in column 80 of card PLT-6a indicates that the first plot is completed.

The second plot, invoked with the PLT-1b card, uses output from the SCATTER and BASF modules, and is specified by the "1" typed in columns 3 and 4 of card PLT-2b. The user wanted the resultant drawing to be the same size as the first plot, so the specifications on the PLT-3b card were the same as those used on the PLT-3a card. Again, there were no labels to be printed, so the PLT-4 and PLT-5 cards were omitted. The PLT-6b card signified that the second plot was completed.

The STOPP module, which is invoked with the STP-1 card, indicates that the user has finished providing instructions for that run. The USER'S RUN consists of the JCL, input data, and module cards, respectively, separated by the "789" cards. A final card, which has a 6789 typed in the first column, signifies the end of information to the computer.

#### **Output Received**

The user received several pages of site-dependent information from the computer at the beginning and end of his output. These pages, which may include local Automated Data Processing (ADP) announcements and billing information, are not shown here, since this report is concerned only with the Blast Noise Prediction program. The user's output is shown as Figure 18.

The first page of output (page A) tells the user the units of his coordinates. Note that height/depth information is always in feet. This output was generated by the NEF-1 card.

The next module is MAP. Since the user in the example requested that the data be listed, they were printed out on pages B, C, and D. The gun-type cards were listed on page B. The warning (not necessarily an error) on page B was generated, since two of the charges were greater than 50 lb (20 kg). In this example, it is not an error, since the user did want 70 and 90 lb (28 and 36 kg) for charge zones 9 and 10 of gun type 10. Page C lists the target points; page D lists the firing-point information and gives the total number of errors and warnings found in the input data.

Page E summarizes the input data read, showing how many gun-type, target, and firing point cards were read. It provides statistics on the number of total firings and the number of firings per day for both day and night. Charge information about minimum and maximum charge zones and weight are also given. The average weight of firings is given in pounds, and the maximum height and depth are

given in feet. The maximum and minimum values for coordinates read are given, along with the coordinate pair in which each occurs. The final item on Page E is the number of points resulting from the grid size specified in MAP.

Pages F, G, H, and I are the cross-reference tables requested on the MAP-2 card. The first cross-reference table (targets by firing points) provides the average number of rounds fired by day for each target and firing point combination. The second table lists targets by gun type and provides the average total weight exploding at each target for each gun type. The third table provides the same information as the second table, but in a different order -- gun types by targets. The last table lists gun types by firing point, giving the average daily charge weight of each combination. Page I also lists the amount of time that the computer spent on the MAP module.

Page J gives the information for the BOUNDS module, including the maximum and minimum coordinates and the amount of time spent by the computer in this module.

The BASE module output on page K shows the start and end coordinates for the lines to be drawn. It informs the user when a new figure is started and how much time the computer spent in this module.

Page I. lists the FORMA module output. First, it informs the user which charge averaging technique was used. It lists the number of days for the data base, as well as the number of unique noise sources, including the number of unique explosion types, i.e., unique combinations of height/depth, weight, location, and weapon types. All omnidirectional noise sources, i.e., demolitions and projectile explosions, are classified as the same type for the above statistic. the average number of rounds fired per day and night is given. In MAP, the number of explosions was given, which is always greater than or equal to the number of rounds. The amount of time spent in FORMA is the last piece of information provided.

Page M -- the first page of the PUDDLE GRID output -- tells the user what the start and stop coordinates used by this module are. In this example, the limits had to be changed, since they were not an integral multiple of the grid size chosen. The new units are listed, along with a warning specifying that they were changed. The weather factors are listed, and PUDDLE GRID specifies that both day and night values are used in calculations. The grid size is also provided. A table of values is listed by coordinates in increments of grid size. This table is pages N and O. The amount of time spent in PUDDLE GRID is the last item printed.

Page P lists the SCATTER module's output, followed by the condition under which the scatter-gram is produced, i.e., day/night/both target/firing point/gun type. The limits of the scattergram are given next. The multiplier, standard deviation, and number of days are listed next, followed by a summary of what will be plotted, which tells how many dots will be plotted for both the firing points and target points. The amount of time spent in SCATTER is the last item printed.

The LOCATOR module output provides the options requested first (page Q), i.e., target/firing points, name, location. Next, the size and angle of the characters to be plotted are given, followed by a listing of the targets and firing points and the amount of time spent in this module.

Pages R and S give the PLOT output for plots 1 and 2, respectively. The first plot (page R) lists the file name used by the system and the date and time that the file was produced. This information is also drawn on the plot itself. For this plot, contours were drawn with a base outline, and the firing point and target points were overlaid. A warning is given about the bounds since PUDDLE GRID modified them. Values used by PLOT for its various parameters are listed. The values having a "*" are equal to default values. If any text cards had been included, they would have been listed next (see Table 13, PLT-4 and PLT-5).

Finally, information concerning the physical plot is given, including the size, how many units (as specified by the NEF-1 card) 1 in. (25.4 mm) equals, and how many sections of plotter paper will be needed. The last piece of information is the amount of time spent in that module.

The second plot uses information from the BASE and SCATTER modules, and provides the same type of information given in the first plot.

The final page (page T) gives the STOPP module's output, which states that the internally stored information is ready to be plotted.

Figures 16 and 17 are the plots produced by this run.

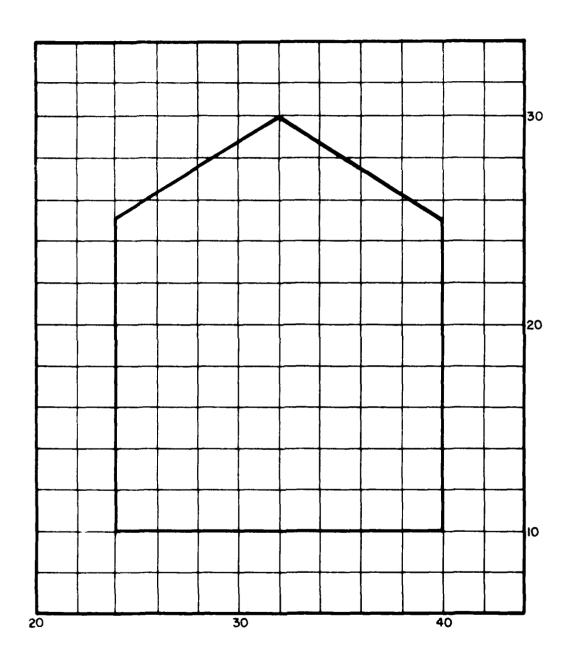
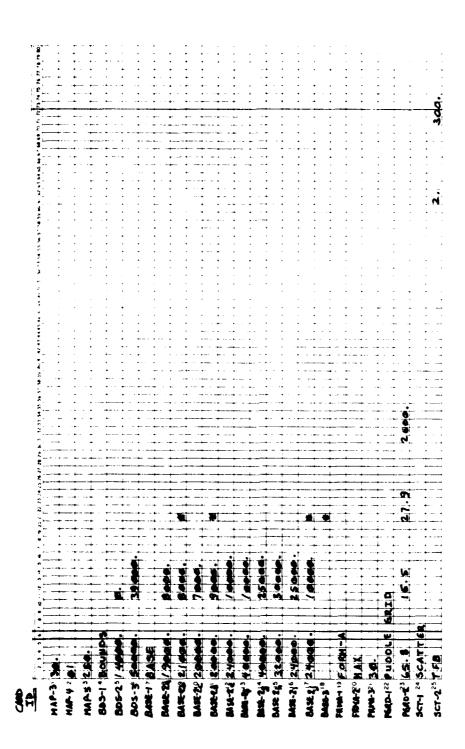
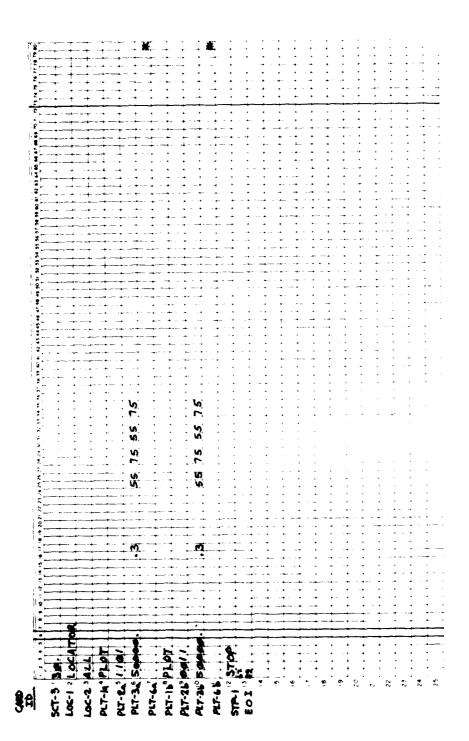


Figure 14. Military installation SHOW.

75 3.0075 9.005 7.006	. 6653 . 6656 . 1119 . 1352 . 1585 . 1818 . 1941				7.80.3.91/0.02 6.97 0.53 0.0 0.63 2.97 6 46/0.021		22 30	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	10.
- Q		9	3 3 9	7 P. W.	7 2	32 per 2 2 5 ge		32 99 99 32 99 99 99 99 99 99 99 99 99 99 99 99 99	







ECTIARS 80/02/19 CLOT 1 1 OF 1
SCALE 1: 50000. 1 INCH 4233, METERS

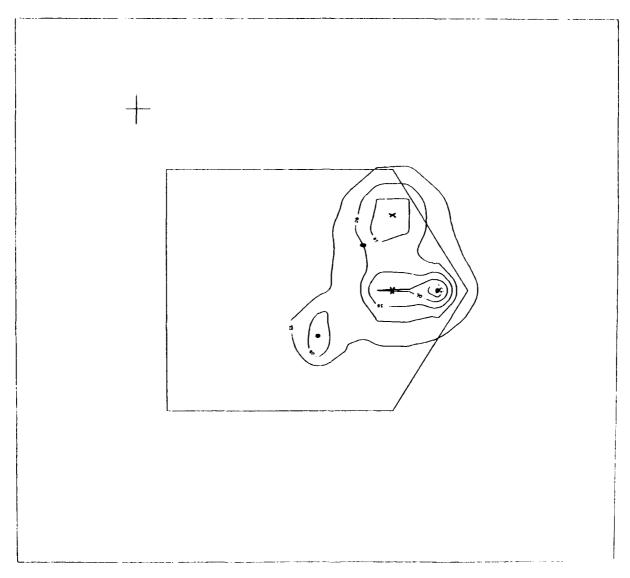


Figure 16. CLDN contours for installation SHOW.

ECTIFER - 80/02/19 - PEOT 2 - 1 OF 1 SCALE 1 - 50000 - 1 INCH - 4233 - METERS

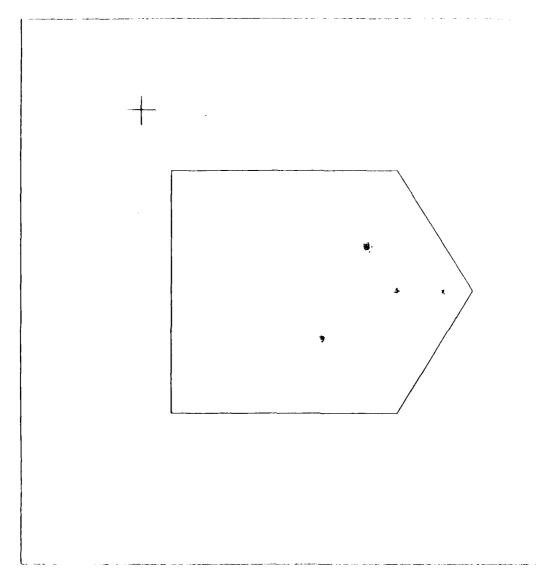


Figure 17. Scattergram for installation SHOW.

... PNUISE3.2

DISTANCES EXPRESSED IN METERS

Page A

... MAP OF SOURCE PUINTS

GUN TYPE CARDS

PROPELLANT AFIGHTS 9.84 .16 25.00 12.10 7.03 9.20 4.03 7.30 3.09 5.70 15.40 1.77 2.29
2.25 .04 .07
0.00 .25 1.00
2 CHARGES LARGER THAN 50. LBS
10.50 1.20 3.40 T CHARGE FLAG G TYPE

00.00

0.00

3.00

13.27 .18 35.00 00.0

0.00

0.00

00.0

1.00 .29 .46 5.75 4.48 6.39 0.00 0.00 6.46 10.02 13.91 1.45 2.20 0.00 2.97 2.88 0.00 53 DIRECTIVITY VALUES 00000 1.45 .37 2.20 2.88 0.00 0.00 2.97 .53 1.00 5.75 0.00 6.46 FU PARA EU PARB 18.51 19.57 0.00 13.91 75.74 90.27 0.00 83.78 155MM HOM (M109) A1MM MORTAR DEMOLITION NAME GIYPE 22 10 80

0 EXPERIMENTAL 83.78 13.91 17.80 13.91 10... 2 ERROR/WARNING CONDITIONS DETECTED FOR THIS CARD TYPE

Page B

Figure 18. Printed output from the Blast Noise Prediction computer program.

TARGET CARDS ....

₫.

FLAG ID X Y HT CONR

TP1 27000, 25000, 0.

... O ERRORIMARNING CONDITIONS DETECTED FOR THIS CARD TYPE

Page C

..... FIRING PT. SOURCE AND DEFINITION CAPDS

FLAG

T IO FLAG MGT 141 142 7 4 7 G TYPE EAYAD MIGHTNU MIN MAX 10. 0°. 150. 100. HT CURP .00065 >3000. .00005 > 000 H < 35000. 32000. f b 3 £ b S f P 1 **1** 

..... O ERROPZAARNING CONDITIONS DETECTED FOR THIS CARD TYPE

.... END OF INPUT PHASE: 2 FRPORZWARNING CONDITIONS DETECTED

Page D

Figure 18. (Cont.3)

										20000.0)	28000.0)	25000.0)	20000.0 )
· · · · · · · · · · · · · · · · · · ·			30. DAY(S)		18.33			215.3 LBS 17.7 LBS		35000.0	32000.0	. 0.00075	35000.0
51 JV 19	TS PEAL IS 2	S WEAD IS 3	BASE TIME PERIOC: 3	55 IS 550,00 INGS IS 52,00	DAY FIRINGS IS MIGHT FIRINGS IS	NUMBER 3	MEIGHT .1 LAS	DAY CHARGE WEIGHT PER DAY NIGHT CHARGE WEIGHT PEH DAY	15 100.00 5 0.00	35000.0 IN PAIG (	28000.0 IN PAIP (	) 8114 NI 0.00075	20000.0 IN PAIR (
PAUMBER OF GIA TYPES	NUMPER OF TARGETS	VUMBER OF SOURCES	EATA B	TOTAL DAY FIRINGS IS TOTAL MIGHT FIRINGS IS	TOTAL PER DAY DA TOTAL PER DAY N	MINIMUM CHARGE PARKINIM CHARGE N	MINIMUM CHARGE MAXIMUM CHARGE	TCTAL DAY CHARGE TCTAL NIGHT CHAR	MAXIMUM HEIGHT IS	SI X MAIXEN	MAKIMUM Y IS	SI x mominim	SI A MOMINIA

COUSS-PFFEPFNCE: TAUGETS AY FIRING PUINTS ; DAILY FIRINGS

TAMGET 10	01 143 FPT 10		FPT IO		01 ldd	FPT 10	FPT ID	FPT 10	FP1 In
191	F P 1	•							
192	rel	10.8	₹d <del>1</del>	5.3					
						Page F			
CRUSS-RE	CRUSS-REFEHENCE: TARGETS	TAPGETS	BY GUN TYPESE	TYPESF	DAILY PROJECTILE CHARGE WEIGHT (LBS)	CHARGE WEIGHT	(۲۹۶)		
TARGET ID	01 NO9	3	01 NO9		01 V09	GUN ID	o I	Q1 20 9	2
191	0 8	0.0							
182	~	82.1							
						Page G			
C+0.55-81	CHUSS-REFERENCE: GUN		ES HY T	TYPES HY TANGETS;	DAILY PROJECTILE CHARGE WEIGHT (LHS)	CHARGE WEIGHT	(۲۲۶)		
01 NO9	JI 94T		्। लष्		UI 101	TAM IO	TAR IP	11 991	7 A T
~	591	. S. 1							
25	:								
10	:								
c ot	101	ु • •							

Page H

1 1gure 18, 10 opt 25

CRUSS-PEFERENCE: GUY TYPES BY FIRING POINTS; DAILY PRUPELLENT CHARGE AFIGHT (LRS)

GI TOR					
for In		,			
FPT 10					
FPT IN					.079 SECONDS
01 101					G SUBPROGRAM 19
FPT 10					TIME FOR MAPPING SUBPROGRAM 18
	37.5	٥.5	50.0	4.1	:
31 1d3	f P 2	F P 1		1 d s	:
GI VOS	~	25	10	0 <b>x</b>	

Page I

.... BOUNDS

MINIMUM BOUNDARY = 14000. 0. MAXIMUM BOUNDARY = 50000. 39000.

BOUNDARY VALUES VERIFIED

.... TIME IN HOUNDS IS ....

Page J

Figure 18. (Cont'd).

RASE .

LINE CARDS

	X - X	194	X - X	END
LINE	19000. A000.	A000.	21000.	21000. A000.
NE N	NEW LINE LINE 20009.	7000.	.00005	9000
N N	NEW LINE			
LINE		10000.	40000	10000
LINE		10000.	*0000	25000.
LINE		25000.	32000.	30000.
LINE		\$0000.	.00045	25000.
LINE	24000.	25900.	.00005	10000

Page K

.018 ....

.... TIME IN BASE 19

FIJRM-A CALCULATION ...

.. FOR INT. EQUIVALENT, FORM-A WILL USE MAXIMUM CHARGE ZONE

..... DATA RASE TIME PERIUC: 30. DAY(S)

NUMBER OF UNIQUE NUISE SOURCES COUNTED IS 6

TOTAL PER DAY DAY EXPLOSIONS IS 2.53

.... TIME FUR FORM-A SUBPROGRAM IS .237 SECUNDS

Page L

Figure 18. (Cont.d)

. PUDDLE GAID .....

MARNING -- SPECIFIED HOUNDS ( 14000.0, 0.0):( 50000.0, 39000.0) DO NOT CORRESPOND TO INTEGRAL GMID BROWDS.
MODIFIED HOUNDS WILL BE USED TO PRODUCE THE GMID AND TO DEFINE ANY PLOT UTILIZING THIS GRID. ****

START AT DATA BASE COORDINATES ( 14000.0,

STOP AT DATA BASE COURDINATES ( 50000.0, 40000.0)

INVERSION = 65.80 15.50 27.90

CALCULATIONS FOR NEF WILL USE BOTH D + N OF DAY AND NIGHT CALCULATIONS

GRID SIZE = 2000.0 ; DISTANCES IN METERS

Page M

Figure 18. (Cont'd).

į.

	14000	16000	18000	0 0 0 0 <b>2</b>	25000	00077	00092	00042	16000	3605	34,00	36	3.4.5	5000	- ( - 2 +
00007	41.2	42.1	42.9	43.3	6.87	3	45.0	45.4	د م 1. د	45.4	٠.٧	⊕ <b>.</b> ₹ 9	7	43.7	6.53
38000	42.0	43.0	43.8	44.7	45.1	46.7	1.4.	4.4.2	1.0.	1.43	1 5	5.44	٠.٤٠	e .	1.,,
36000	4.53	43.7	44.7	45.6	6	4.47	47.4	47.9	- a ,	C. K.3	0.61	4.7.	7.73	o .	o.
34000	43.4	2.44	45.5	7.97	47.3	47.B	48.7	2.07	α. 0.3	0.07	4.07	o. a 3	0.7.0	Œ ,	ď.
32000	43.8	45.0	46.7	47.2	£ 6.3	. 07	50.3	51.5	51.A	51.9	51.5	ر بر ا	1.0,	ď. 7,7	٤٠.
30000	43.8	45.1	46.7	47.9	. 67	51.1	52.3	53.4	54.7	57.6	5.45	51.9	50.3	7.8.	47.1
28000	0.77	45.4	49.6	5. A.D.	50.6	53.2	6.55	56.6	5.8.8	5.20	ر <b>م</b> د	5.3.3	٠15	. 07	4.7.
26000	1.77	45.6	8.97	4.5	51,1	55.5	45.4	5.59	61.3	70.3	7.09	54.5	51.7	£ 0.3	9. 47
24000	1.00	45.6	4.07	4 A S	51,1	55.3	05.4	47.5	9.10	70.1	5°09	54.1	51.7	40.0	0.47
22000	43.7	45.1	46.3	47.9	50.0	52.7	28.1	57.6	56.8	26.7	56,3	54.7	51.5	40.5	47.4
20000	43.4	6.00	45.9	47.2	6.83	50.3	51.9	52.6	53.1	53.6	61.B	62.A	51.5	.0.1	47.3
14000	6.27	1.77	45.3	46.4	47.3	7.07	10.6	50.5	50.0	51.4	54.1	52.4	0.03	0.41	5.47
16000	42.4	43.5	7.77	45.3	46.3	47.2	47.9	48.6	0.07	49.5	7.07	0.0	47.9	d . 47	45.7
14000	41.7	45.6	43.6	5.00	45.3	0.07	46.0	47.1	47.5	47.7	47.5	2.7.	3.63	45.6	4.77
12000	6.07	41.9	42.7	43.5	7 77	0.11	45.3	45.0	46.1	46.3	c . 47	45.7	45.1	5.00	4.3.3
10000	40.1	0.0	41.8	42.5	43.1	a. K.7	44.2	9.77	9. 37	E . B	9. 77	7.77	4.3.8	43.2	42.3
9000	39.6	0.07	e . 0 3	2.12	0.27	45.6	0.27	43.3	43.5	43.4	43.3	43.0	4.5.4	Ü - 2 #	.1.3
0000	39.1	19.5	30.0	40,3	c.1 a	41.5	41.7	0.17	42.2	0.57	0.17	41.6	41.2	E . C 3	2°07
0000	3A.7	38.9	39.2	30.5	30.0	40.≥	40.5	۲. ۲	6.04	8°07	4.07	77 0 77	40.1	39.7	39.2
2000	30.3	34.5	38.7	36.9	39.1	39.2	39.4	39.6	39.7	39.6	30.5	39.3	39.1	34.9	34.7
0	38.0	36.1	38,3	38.6	34.6	38.8	38.9	39.0	38.9	38.8	38.0	36.8	38.6	38.5	34.3

Page N

20000	10.3	0.01	£	41.5	41.5	0.27	42.5	42.3	42.3	42.2	0.50		0	_	39.6	39,1	7.48	38.4	1.65	37.8	37.6
(0087	<b>₹.00</b>	٠,12	7.17	a. <a>a</a>	0.50	43.5	A. 8.7	63.0	43.9	43.7	~	~	~	-	40.7	•	0	38.7	•	34.1	37.7
46070		.o.€7	9.78	43.7	٠,٠	7.77	7.77	45.1	1.50	45.0	7	7	•	$\sim$	4.1.6	C	•	10.1	•	38.3	37.9
60000	1.2.	1.57	c	4.77	45.4	<b>4</b> ,	£5. ×	7.97	4.07	7.07	0.07	2.5	5.00	43.7	45.6	41.5		30.6	÷		38.2
	00001	38000	30000	34000	1200₽	00	Œ	26000	2	Ş	000	20.0	10000	001	00≥	0	c	0009	c	00	0

Page 0

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...TARGETS

STG DAING PTS

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3 FIRING PTS: 41 SCATTER PTS.

WULTIPLIER USED = 2.0

. TIME IN SCATIFR IS .057 SECONDS

Page P

Figure 18. (Cont'd)

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.... 612. .... TIME IN PLOT IS Page R

Figure 18. (Cont'd).

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Page S

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NASAPLOT INPUT FILE COMPLETED

Page T

Figure 18. (Cont'd).

# 5 CALCULATION OF CONL

#### General

Noise travels some distance from its point of origin (source) before dissipating. Therefore, to accurately evaluate the noise produced at a point, it is necessary to determine the level of sound produced in the entire area surrounding its origin. The size of the area **around** a noise-producing source which must be evaluated depends on the initial energy of the noise, i.e., a low-energy noise will affect a smaller area than a high-energy noise

The Blast Noise Prediction program can evaluate the noise level of sound produced in an area around a noise-source and uses the CDNL measure to quantify these noise level units in decibels. The capability to quantify noise produced at a source is of particular value to Army planners who must evaluate and predict community response to the noise-producing activities of Army installations. To create CDNL values, the Blast Noise Prediction program uses a series of calculations which rely on a specific set of formulas and tables. These formulas incorporate data which must be provided by the user: therefore, raw noise-source data must be converted into a form suitable for submission to the computer. Once the raw data have been properly compiled, they can be turned over to the computer for processing.

The formulas require several user-supplied specifications:

- 1. The number and times of rounds (blasts) occurring during the day and night. A penalty of 10 dB is applied to night operations (2200 and 0700 hours).
  - 2 The locations of both the firing point and the target point.
  - 3. Weather information for the region being surveyed.

In addition, the user must specify the boundary coordinates for his area of interest and tell the Blast Noise Prediction program into what size blocks he wants the area to be broken up into for computational purposes. The program uses this information to divide the user's area into a grid of points, i.e., a matrix of X and Y coordinates. Each of these points is a given distance away from the noise source being evaluated since the calculations for the noise level incorporate distance. The Blast Noise Prediction program then calculates the noise level of each source at each given point. This calculation is repeated for each point. The values are stored and printed out by coordinates, and are used (at user discretion) to produce a reference table of the noise level at each given point. The user can also request the program to generate a paper plot showing the contours of the noise levels in the area around the source(s) being evaluated. The program creates these contours by joining points having the same noise-level values. (The user, however, must first tell the program which levels he wants plotted, e.g., 55 to 75 dB every 5 dB. The user can also request an outline of the installation or other relevant region. This additional information on the plot can serve as a visual reference for the noise levels.) Finally, these contours are used to predict the noise impact of Army artillery, armor, and demolition activities.

The information tables produced by the TABGEN portion of the Blast Noise Prediction program provide a listing of decibel values for distances away from a blast produced by a 5-lb charge. (See Table 20)

The background on the information which Table 20 provides rests on theory for sound propagation in the atmosphere." The speed of sound is a function of both wind and temperature; as these conditions change with allitude, sound waves are refracted or focused.

Figures 19 through 22 illustrate four simple cases of this phenomenon. (1) a negative sound velocity gradient, (2) a positive sound velocity gradient, (3) a positive sound velocity gradient which changes to a more sharply positive velocity gradient, and (4) a negative gradient followed by a positive gradient at a higher altitude.

P. D. Schemer, et al., Predictive Commun. Response in Blass Nove, TR I, 127 ADA 23 690, 0.1 RT. December 1933.

P. D. Schomer, 32 d. The Statistics of Impressic and Specialm of Blasis Propagated in the Annispines. Volumes Land II. TR N

In Case 1, sound is retracted upward, producing noise levels on the ground lower than those produced under uniform velocity or zero gradient conditions. For Case 2, sound rays are refracted downward, and the sound intensity on the ground is somewhat greater than that under uniform velocity gradient conditions. With combinations of these gradients, sound rays can travel over different paths and still arrive at an observation point simultaneously to produce a focus. In Case 3, separate groups of sound rays are created by two positive gradients -- the upper gradient is stronger than the lower. A weak focus, labeled for a created at the points where both groups meet at the surface. In Case 4, sound is retracted upward in the lower negative gradient and downward in the upper positive gradient. The result is an increase of noise levels at the sharp focus in the region labeled F, and a reduction of noise levels in the silent zone between I and the blast site.

The probability of obtaining given amplitudes at various distances is a key statistic required for newse-impact prediction. Anaplitude distributions have been created based on CERL blast data. Figure 23 shows a sample of such a distribution. Each such distribution is subdivided into four regions. The energy averages of the measured blasts within each region are calculated and plotted as a function of distance to produce the amplitude vs distance curves (Figures 24 and 25). The percentage of blasts lying in each range can be determined for each distribution and then related to distance, and an explanation developed to relate the statistics to environmental (e.g., atmospheric) conditions.

These regions from highest to lowest, are called FOCUS, BASE, NEGATIVE, and EXCESS NEGATIVE. In addition, the lines separating the regions are called MEAN to distinguish the arithmetic mean from the line at the top of the region, which is labeled MAX, and the line at the bottom of the region, labeled MIN. It can be seen that FOCUS MIN and BASE MAX are the same line, i.e., the line between FOCUS MEAN and BASE MEAN. Thus, there are nine separate lines to be concerned with

Statistics obtained from blast data are based on a 5-lb charge fired during the day with atmospheric conditions considered to be standard inversion factors.* Deviations from these basic conditions are accounted for by corrections added during the calculations.

#### Units

The amplitude is given in decibels and defined as

$$10 \log_{10} \left( \frac{P}{P_o} \right)^2$$
 [Eq. 1]

where

 $P_0 = \text{reference pressure of } 20\mu\text{Pa}$  P = pressure in Pascals.

The distance between a noise source and the point at which its noise level is to be calculated using the X and Y coordinates read from a map is determined as follows:

distance = 
$$\left[ (x_1 - x_2)^2 + (y_1 - y_2)^2 \right]^{1/2}$$
 [Eq. 2]

where

 $(x_1, y_1) = coordinates of the point$ 

 $(x_2, y_2) =$ coordinates of the source.

If the map coordinates are in feet, they can be transformed to metric units by the conversion: 1 ft = 0.3048 m, 1 mile < 1609 m

issue that investigate the expected immedition the weather conditions at Fort Leonard Wood, MO

- 1. Night correction -- if firings are at night, add a 10 dB penalty to compensate for increased human sensitivity to noise occurring at night.
- 2 Charge size correction -- The difference between a 5-lb open air explosion and the blast to be predicted must be found. If the blast is not created by a weapon, but is the result of an omnidirectional explosion, then Figure 26 is used. If it is a weapon, then the following equation is used.

Charge correction = 
$$4 + B * \log_{10} (W * 16) AUG 119$$
 [Eq. 3]

where

A, B, and AVG are found in Table 4

W is the weight of the explosive in pounds

- 3. Height correction the height or ground correction is used to compensate for the attenuating effects of the earth on sound wave propagation for explosions occurring above or below the ground.
  - a. If height > 0 then ground correction = 0 dB.

b. If 
$$height < 0$$
,  $depth < \frac{(height)}{(charge | size)}$  [Fq. 4]

where

height is in feet charge size is in pounds

If 2.24  $\geqslant$  depth  $\geqslant$  0 then

Ground correction = 
$$\frac{depth}{-1.363}$$
 [Fq.5]

If depth > 2.25, then

Ground correction 
$$\approx \frac{(depth)(17.46)}{11.933}$$
 [Eq. 6]

4. Gun angle correction—The sound produced by a round fired by a weapon has a directivity pattern associated with it as a result of the physical characteristics of the weapon; noise produced by a demolition blast, however, is omnidirectional. Therefore, a correction factor must be added to account for directivity. This factor incorporates the angle between the direction in which the weapon muzzle is pointed and the poin, at which the calculation is being made (Figure 27). The correction factor can be found by looking it up in Table 4 for the appropriate gun type and closest angle, e.g., any angle between 15 and 450 would be included under "300" in the table. There are still other variables to consider, but their effects are considered further on in the calculations.

## V. Sound-Energy Exposure

At this stage, a table of all the corrected decibel values should be made. However, before the arithmetic operations (addition or subtraction) can be performed, the decibel values must be

 $P = \{(S, v) \in \mathbb{R} \mid V \in \mathbb{N} \mid f(v) = m(V, X, B) \mid Hare = \{(m, v) \in P \mid f(v) \in \mathcal{H}_{P} \mid f(v) \in H_{P}, f(v) \in \mathbb{R} \mid K(v) \in A(V, X) \in A(V, X) \} \}$ 

### 1 Data Needed

Before proceeding with the calculations, the following set of data must be readily available

- 1. Weapon type
- 2. Distance (in meters) from the noise source at which the decibel level is to be calculated
- 3. The time of firing, i.e., during the day (0700 to 2200 hours) or night (2200 to 0700 hours).
- 4. Weight of explosives in pounds (charge size or zone)
- * Height above or below ground (in feet) of the explosion
- 6. It a weapon, the angle of fire in relation to the point of calculation
- " Inversion factors for
  - a. Surface
  - b 1 to 500 m
  - c. 1 to 3000 m
- 8. Number of rounds fired
- 9. Number of days for which data were collected,

#### H. Blast Amplitudes

To find the appropriate C-weighted decibel values in the tables produced by TABGEN, the following calculations must be made  $100 \log_{10}$  (distance in meters) - 199 = position in table counting across from left to right values for

- I Focus MAX
- 2 Focus MEAN
- 3. Base MAX
- 4. Base MEAN
- 5. Negative MAX
- 6 Negative MEAN
- Excess Negative MAX
- 8 Excess Negative MEAN
- 9 Excess Negative MIN

The values listed above must be taken from Table 20. The user must be sure to choose either the day or night tables, depending on the data.

## III. Percentages

The next set of values required are the percentages which are found in the same position in the tables as that calculated for the decibel values. There are four numbers, one for each of the regions FOCUS, BASE_NEGATIVE, and EXCESS_NEGATIVE; these numbers are also differentiated as to day or night.

## **IV.** Correction Factors

After the preceding initial values are obtained, a series of decibel correction factors are added to them, so that they correspond to the given data. These factors are a result of weapon type, charge size, right, height above or below ground, and angle of gun with respect to the receiver (point of calculation). After all the correction factors have been calculated, they are added together and then added to the number of decibels found initially. They are

transformed back to sound exposure in energy. Only levels above 85 dB are to be used in calculating the total SEL*. There are four separate cases which can be used for calculating the sound exposure, depending on the magnitude of the values in the table. Each region, FOCUS, BASE, NEGATIVE, and EXCESS NEGATIVE is considered separately. Before converting decibel values to energy, the user must first determine whether the corrected values for each region are greater than or equal to  $\geq 85$  dB.

Let

$$4 = Mcan - Min$$
 [Eq. 7]

$$C = Max - Mean$$
 [Lq 8]

$$K = \frac{4.343(10^{10} - 1) - C}{4.343(1 - 10^{-10})}$$
 [Eq. 9]

Case I Max ≥ 85? No. Mean ≥ 85? No. Min ≥ 85? No.

Sound Exposure = 
$$SE = 0$$
 [Fq. 10]

Case II.  $Max \ge 85$ ? Yes.  $Mean \ge 85$ ° No.  $Min \ge 85$ ? No.

$$F_1 = \frac{1.373 \times 10^9}{(K4 + C)}$$
 [Eq. 11]

$$F_2 = 10^{-10} - 1$$
 [Eq. 12]

$$SE = F_1 * F_2$$
 [Eq. 13]

Case III  $|Max| \ge 85^\circ$  Yes  $|Mean| \ge 85^\circ$  Yes  $|Min| \ge 85^\circ$  No.

$$F_1 = \frac{1.373 \times 10^9 K}{KA + C}$$
 [Eq. 14]

$$F_2 = 1 - 10^{-\frac{M_2 - 88}{10}}$$
 [Eq. 18]

$$M = 10^{-10}$$
 [Eq. 16]

$$SE = M + F_1 F_2$$
 [Eq. 17]

Phys., Real Commuter on Hearing Biogeoistics and Biomechanics Assembly (CHABBA) Converted impulse constitutes the community Processor Physics of the Noise Processor of TM 8 803.2 And Force Monard CMAL 39 40 and Nov. Public one (NAVLAC) P.970.4D partiagons of the Air Lorce Army and the Navy 12 Juny 1928. In Processor of the Converted Charles of the Air Lorce Army and the Navy 12 Juny 1928. In Processor of the Converted Charles of the Air Lorce Army and the Navy 12 Juny 1928. In Processor of the Converted Charles of the Charles of the Converted Charles of the Ch

Case IV.  $Max \ge 85^\circ$  Fes.  $Mean \ge 85 > 1$ es.  $Min \ge 85^\circ$  Fes.

$$SE = 10^{\frac{-2.47}{10}}$$
 [Eq. 18]

### VI. Percentage Correction Factors

The tables created by TABGEN are under the conditions of standard percent/temperature inversion factors.* These are 74.2 percent at ground level; 8.6 percent at 0 to 500 m, and 18.67 percent at 0 to 3000 m. If these values differ for the area under consideration, the percentage values found in TABGEN are modified.

PC1 = ground or surface inversion factor

PC2 = 0 to 500 m

PC3 = 0 to 3000 m

It Day

$$Ratio = \frac{PC1 + PC2}{82.8}$$
 [Eq. 19]

If night, and distance between source and point ≤ 2 miles:

Rano 
$$R1 = \frac{P(1)}{74.2}$$
 [Eq 20]

If night, and distance ≥ 10 miles

Rano 
$$R2 = \frac{PC3}{2(18.67)} + 1/2$$
 [Eq. 21]

It night, and  $2 \le \text{distance} \le 10$ .

$$Ratio = \frac{R2 - R1}{0.7} Log 10 \frac{(distance)}{2} miles + R_1$$
 [Eq 22]

where

distance is in miles

The percentages taken from the day or night percentage vs distance/curves are identified as follows

F = % FOCUS

N = % NEGATIVE

B = % BASE

EN = % EXCESS NEGATIVE

$$F1 = new FOCUS factor = F \times ratio$$
 [Eq. 23]

$$B1 = new BASE factor = B x ratio$$
 [Eq. 24]

$$\Delta = (B-B1) + (F-F1)$$
 [Eq. 25]

Research is underway to retrict this portion of the prediction by including both temperature and wind effects

$$N1 = new \ NEGATIVE \ tactor = \frac{N}{N + EN} + \Delta + N, \text{ if } < 0 = 0$$
 [Eq. 26]

$$EN1 = new\ EXCESS\ NEGATIVE\ factor = \frac{EN}{N+EN}\ x\ \Delta + EN$$
, if  $< 0 = 0$ . [Eq. 27]

### VII. Sound-Exposure Total

# A. Total

At this point, the sound-exposure values for each region FOCUS, BASE, NEGATIVE, and EXCESS NEGATIVE found in Section V are multiplied by the corresponding percentages found in Section VI. The four resulting numbers are then summed to determine the total sound exposure.

$$SE_{I} = SE_{I} + SE_{R} + SE_{N} + SE_{LN}$$
 [Eq. 28]

where

SE = SOUND EXPOSURE * PERCENTAGE

T = TOTAL

F = FOCUS

B = BASE

N = NEGATIVE

**EN = EXCESS NEGATIVE** 

#### B. Rounds

Calculation thus far has been one round per day or night. This is the stage at which calculations include more than one round, if necessary. Multiple rounds are accounted for by dividing the total number of rounds from a given source by the total length of time (in days) over which firing was averaged to obtain a single value for number of rounds per day. This value is then multiplied by the total sound exposure calculated from that one source to the point.

$$SE_{NI,0} = \frac{\left(SE_I\right) (number \ of \ rounds)}{\left(day\right)}$$
 [Eq. 29]

where

SE_{NEW} = sound exposure for specified conditions

 $SL_T =$ sound exposure total from Eq 28.

The sound exposures thus calculated for day and night values are added together. If there is only one source, then this is the final sound exposure  $(SF_{\rm FN})$  for the point and the calculations proceed to Section VIII. If there are more sources, this sound-exposure value is an intermediate result. Very seldom, however, is there only one source. If there is only one firing point and one target point, there are two sources. (Note: since the noise at the target point is omnidirectional, just as for a demolition or explosion, there should be no gun-angle correction for it during the calculation.) The final sound exposure at a given point is the sum of the energies due to all sources at that point. Thus, all the

calculations from Section II to VII are repeated to determine the sound exposure due to each of the sources at the point.)

## VIII. CDNL

The value for the final sound exposure is transformed into decibel units by a logarithmic transformation to obtain the SFL

$$SEL = 10 \log_{10} SE_{t,\lambda}$$
 [Eq. 30]

where

SF_{FN} is the final total sound exposure from all sources.

To obtain the CDNL values, a constant is subtracted from this value. This constant is the logarithm of the number of seconds in a day and arises from the way the equations for CDNL are handled by the program.

$$CDNL = SEL - 49.365$$
 [Eq. 31]

Example 1

- 1 Firing Data*
- (11) Demolition
- (12) Distance from source = 4000 m
- (13) Daytime
- (14) Charge size = 5 lb
- (15) Above ground 200 ft
- (16) Omnidirection explosion (no target)
- (17) Standard inversion factors
  - (17a) 74.2 percent
  - (17b) 8.6 percent
  - (17c) 18.67 percent
- (18) One round
- (19) 1 day

Blast amplitude (II) and percentage (III) use a distance of 4000 m. Find the decibel values for the regions FOCUS, BASE, NEGATIVE, and EXCESS in the TABGEN tables. Position in table =  $100 \log 4000 - 199 = 161 =$ first column in ninth row. Table 21 lists all values.

(IV) Correction factors

Question	Answer	Decibel Correction
(a) Night 1	No	0
(b) Charge size '	S 1b	(1
G. Height 1	In air	0
(d) Crub angle	Not applicable	()
	IOIM	0 (B

Six ion bradings from which values in the following pages are derived are denoted by (D. (II), etc.

Since the correction factors total 0 dB, the corrected decibel values are the same as those found initially from TABGEN.

(V) BASE is Case IV SE = 
$$10^{-10} = 1.10 \times 10^{10}$$
 [Eq. 18]

(V) FOCUS is Case IV 
$$SE = 10^{-10} = 1.62 \times 10^9$$
 [Eq. 18]

(V) NEGATIVE is Case II

$$A = 82.9 - 77.2 = 5.7$$
 [Eq. 7]

$$C = 87.0 - 82.9 = 4.1$$
 [Eq. 8]

$$K = \frac{4.343(10^{\frac{11}{10}} - 1) - 4.1}{5.7 - 4.343(1 - 10^{\frac{10}{10}})} = 1.077$$
 [Eq. 9]

$$F_1 = \frac{1.373 \times 10^9}{(1.077)(5.7) + 4.1} = 1.341 \times 10^8$$
 [Eq. 14]

$$F_{\rm s} = 10^{-10} - 1 = 0.585$$
 [Eq. 15]

$$SE = (1.341 \times 10^{8})(0.585) = 7.845 \times 10^{9}$$
 [Eq. 7]

(V) EXCESS NEGATIVE is Case I

$$SE = 0$$
(VIIA) 
$$SE_{t} = (1.10 \times 10^{10})(0.041) = 4.51 \times 10^{8}$$

$$SE_{H} = (1.62 \times 10^{9})(0.219) = 3.55 \times 10^{8}$$

$$SE_{X} = (7.845 \times 10^{7})(0.385) = 3.02 \times 10^{7}$$

$$SE_{X} = 0$$

$$SE_{X} = 8.372 \times 10^{8}$$
[Eq. 28]

(VIIB) No round correction since number of rounds and number of days both = 1

$$SE_{t,\lambda} = SE_{t} ag{Eq. 32}$$

(1711) 
$$SEL = 10 \log_{10} (8.362 \times 10^8) \approx 89.2$$
 [Eq. 30]

$$CDNL = 89.2 - 49.365 = 39.9$$
 [Eq. 31]

Example 2

(11) 105-mm howitzer (M102)

(12) Distance from source = 1/2 mile

(13) Night

(14) Charge zone 6, A = 83.78; B = 13.91; AVG = 10.84

(15) Not applicable

116) 90°

(17) Inversion factors

(17a) 93 percent

(17b) 2 percent

(17c) 5 percent

(18) 100 rounds

(19) 2 days

(II and III) 1/2 mile = 804.5 m

Position in TABGEN table =  $100 \log_{10} (804.5) - 199 = 91$  = eleventh column in fifth row. Table 21 lists the decibel values found in TABGEN.

## (IV) Correction factors

		dB correction
(IVI) Nighttime?	yes	10
(IV2) Charge size:	1.8656 lb	-25.5
(IV3) Height?	Not applicable	0
(IV4) Gun angle?	90°	6.5
	TOTAL	-9.0

Add the correction factor to the initial values in TABGEN (Table 22).

(V) Sound exposure

$$F = 10^{\frac{111.5}{10}} = 1.41 \times 10^{11}$$
 [Eq. 18]

$$B = 10^{\frac{104.6}{10}} = 2.88 \times 10^{10}$$
 [Eq. 18]

$$N = 10^{-10} = 2.82 \times 10^9$$
 [Eq. 18]

EXCESS NEGATIVE is Case II

$$A = 843 \cdot 773 = 7.0$$

$$C = 869 - 843 = 2.6$$

$$K = \frac{4.343(10^{30} - 1) - 2.6}{-7.0 - 4.393(1 \cdot 10^{-10})} = 0.272$$
[Eq. 9]

$$F_1 = \frac{1.373 \times 10^9}{(0.272)(7.0) + 2.6} = 3.05 \times 10^8$$
 [Eq. 14]

$$F_{\rm c} = 10^{-10} - 1 = 0.549$$
 [Eq. 15]

$$SE = (3.05 \times 10^8)(0.549) = 1.67 \times 10^8$$
 [Eq. 17]

(V1) PC1 = 93 PC2 = 2 PC3 = 5

$$N_{ight.} < 2 \text{ miles. } RI = \frac{93}{74.2} = 1.25$$
 [Eq. 20]

$$F1 = (6.1)(1.25) = 7.625$$
 percent [Eq 23]

$$B1 = (39.0)(1.25) = 48.75$$
 percent [Eq. 24]

$$\Delta = (6.1 - 7.625 + (39.0 - 48.75) = -11.275$$
 [Eq. 25]

$$N1 = \frac{(39.7)}{54.9} (-11.275) + 39.7 = 31.55 percent$$
 [Eq. 27]

$$EN1 = \frac{(15.2)}{54.9} (-11.275) + 15.2 = 12.08 percent$$
 [Eq. 27]

(VIIA.) 
$$SE_{I} = (141 \times 10^{141} (0.0762) = 1.074 \times 10^{10}$$
 [Eq. 28]  
 $SE_{B} = (2.88 \times 10^{10}) (0.4875) = 1.404 \times 10^{10}$   
 $SE_{A} = (2.82 \times 10^{0}) (0.3155) = 8.897 \times 10^{8}$ 

$$SE_{I} = 2.569 \times 10^{10}$$
 [Fq. 28]

(VIIB) 
$$\frac{100 \ rounds}{2 \ day} = 50 \ rounds/day$$
 [Eq. 30]

 $SE_{LX} = (1.67 \times 10^8) (0.1208) = 2.022 \times 10^8$ 

 $SI = SI_{-N} = (2.869 \times 10^{-}) (80) = 1.288 \times 10^{-} \qquad \text{(Fig. 30)}$   $SII = 10 \log_{+} (1.285 \times 10^{-}) = 121.4 \, dR \qquad \text{(Fig. 33)}$   $CDNI = 121.1 = 49.368 \times 71.7 \, dR \qquad \text{(Fig. 34)}$ 

Table 21
Decibel Values from TABGEN for Example 1

		(II) Decibels	(III) Percent
ì	MAX	105.4	4 1
	MEAN	100.4	
н	MIN MAX	96.8	11.4
	MEAN	92.1	
`	MIN MAX	810	48.5
	MEAN	82.9	
FN.	MIN MAN	* * ?	
	MEAN	23 (I	15.5
	MIN	63.8	

 Lable 22

 Corrected Decibel Values from TABGEN for Example 2

		(11) Decibels	(III) Percent	(IV) Corrected Decibel Values
ŀ	MAX MEAN	123.9 120.5	8	114.9 111.5
н	MIN MAX MEAN	1189 1136	52.8	104 6
`	MIN-MAX MEAN	107.9 103.5	38.6	98 9 94 <
15	MIN MAX MEAN MIN	95 9 91 1 86 1	٦ ۾	86 9 84 3 77 3

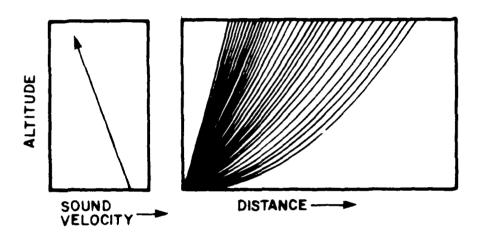


Figure 19. Negative a mond velocity graduals.

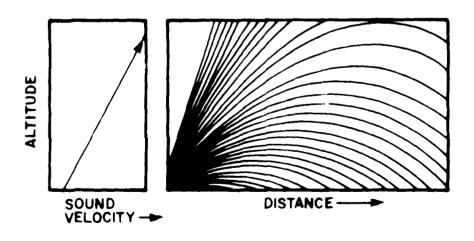


Figure 20. Positive sound velocity gradient.

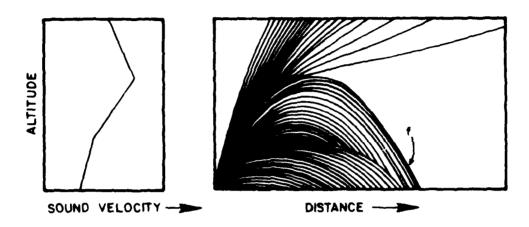


Figure 21. Sharpiy charged positive sound

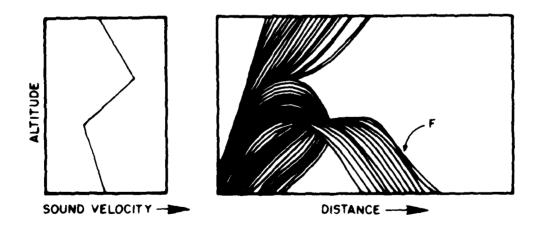


Figure 22. Negotial good and a window of the control of the con-

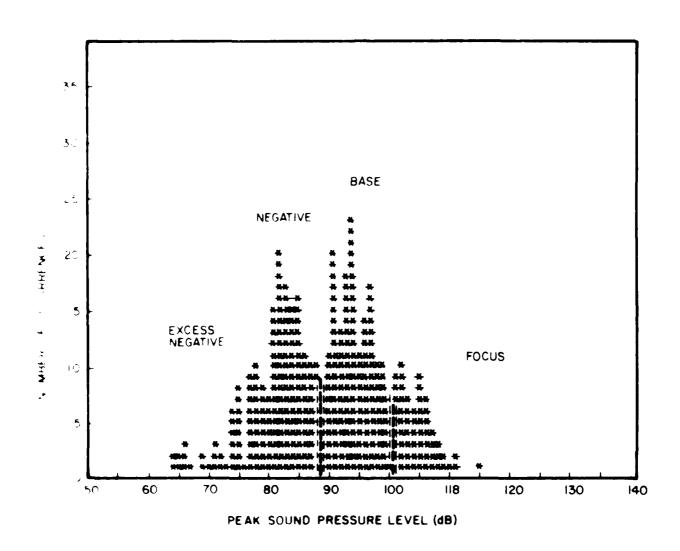


Figure 23. Simple implifiade description

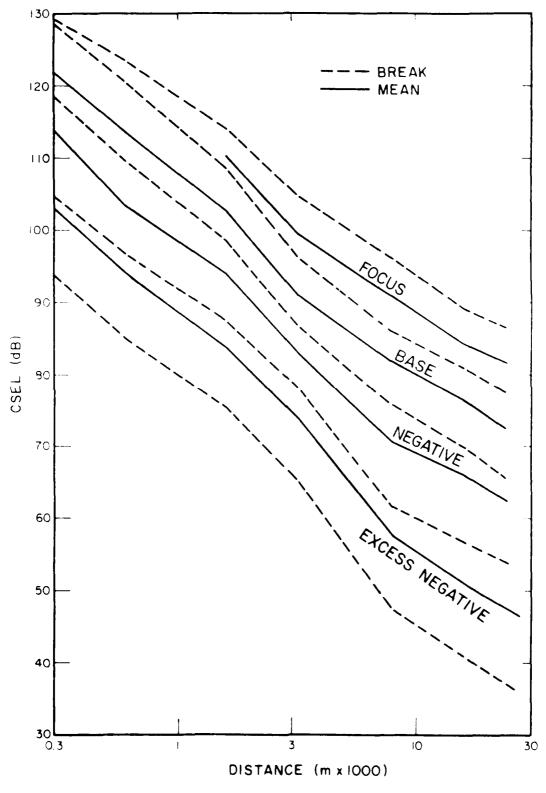


Figure 24 Means and break (day)

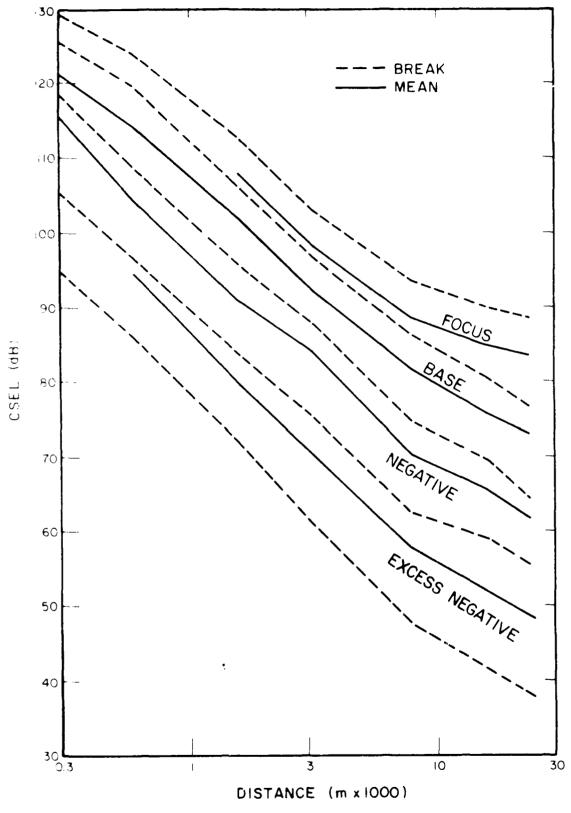


Figure 25 Means and break (night) 134

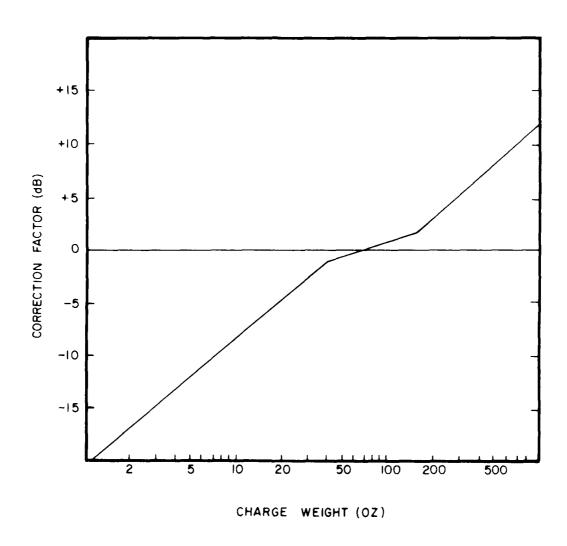


Figure 26 Charge size correction graph.

(TOP VIEW)

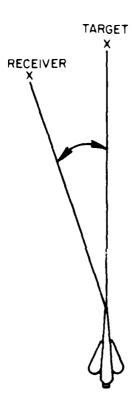


Figure 27 Angle illustrations.

APPENDIX:

**BNOISE 3.2 SOURCE LISTING** 

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IF (KFLAM, E., 1) GO TC 203  ANTE FLAG SET  203 IC=0  GO TTY-0  COMPTY-0  CONDITION  205 SIT=1, 146  CONDITION  206 STIP THIS IS A LEGITLAME TARGET  IF (ILC. E., 1) ILC. IT THIS IS A LEGITLAME TARGET  CONDITION  206 SIT=1, 146  CONDITION  CON		(15, WE. 19ch x)60 12 204	
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			C 1 4 4 5 C C T
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212 CCVTINUE		E. TECHSIJJE IAVE	
A C = ("\" \		PATINUE	F USMA115
<pre>lave=avt if((ave=lave), G1, u) lave=lave+1 G0 T0 214</pre>		√E H ( M   M + W A X ) * . ⊃	F0×44116
IF ((AVE-IAVE), GT., U1) LAVE=IAVE+1 GU TO 214		CE # A C F	FO4"A117
20 00		((AVE+IAVE).GTUI)IAVE=IAVE+1	F URMA118
		10 21 4	F ORMA119

SUBROUTINE FURMA	FURNA.	A 74/175 OPT=2 ROUNDE+=#/ FIN 4.6 508	80/10/30, 12.45.43	PAGE
230	213	CONTINUE CHARZ(CHAYGE (MIN, 11YPE)+CHAFUE (MAX, ITYPE))+,5 GO TO 215 CONTINUE	FORMA120 FORMA121 FORMA122 FORMA122	
235	216	CMARECHARGE(IAVE,ITYPE) CONTINUE TCMARZICHARG(ITYPE)	FORMA124 Foama125 Forma126	
0	U	IF FIRST CLEINITION CAND FUR (XLUCYLOC) PROCESS IF (FIRST) GU 10-250	FORMA127 FORMA128	
	U	CHECK FUR OLD TAKGET (ALSO CM1) If (10.EG.v)GO TC 217	FORMA129 FORMA130	
245	U U	ULO TANCET SU CHECH TO SEE IF IT IS A DUPLICATE DO 215 JULDAIPTH.; SAME TANGET, CHANGE, AND GUN; UPDATE IF (IDTPRECIOUD), EG. CHAND, SOBAMITULD), EG. CHAR, AND.	F O R R A 3 3 3 1 5 C C C C C C C C C C C C C C C C C C	
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495	TF(YIN, LE.O.OR. YIN, GE.NUMCEG)GU TO 434				453	
	14 (16.Eu.6)60 TC 440	;			4 V	
	C FIRST ELEMENT IN CHARGESTANDED CHARGE, SO OFFICE	 >-		a (	455	
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510	C CHARGE SIZE NO GLOD					
	436 WHITE (KPRINT, 740)10				468	
				4	69	
	cac Creso.				470	

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	ე a a	VALID 4 IF (IMAGE) GU TO 445 ASSIGN 445 TO 70 445 CU TO 4001 REHEMERERH+1			
### ##################################					
LINESHLIKS+					
F(HELGE, E4, 1) GU TG 470     F(HELGE) GU TU 491     ASSIGN 451 TO AFFICTO     GU TO 40901     GU TO 40901     C SELENT 186     C SELENT 18     C SELENT 18	<b>U</b> U	ARXXXXXXI LIZEONELIZEO+ PLAG.XCXXXI PLAG.XCXXI 110 (101.XC.)			
	J	11-50 15 (MFLAG, E4.1)GU TG 15 (IMAGE)GU TU 451 ASSIGN 451 TO AFFATO GG TO 40991 9LANN TARRET TO ANTER (APRILATIVE)			
	e e				
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SUBROUTINE	4 4 9	74/175 UPIEZ H WW FIN 4.8 508	90/1	80/10/30, 12.45.43	PAGE	_
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	1 IOT, MFLAG, MGT, (20L(J), J=19,56)	Y.A.P	576	
	IMAGE=.TRUE.	4	277	
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	C HEADEN RULINE	45	581	
	99991 CONTINUE	4	582	
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		IF(ITF.LE.0)6U TO 500	d T	656	
		ARITE (KPRI-1,607)	4	657	
125		IF(XTF,EG,2)MRITE(MPRINT,746)	4	658	
		WRITE(KPRINI, 705)	d T	659	
		CALL PUTXH (TXFPT, NUMTRG, NUMFPT, NTAH, NSHCS, ADTRG, ADFPT, DAYS, XREF,	A A	099	
		13)	Q. 2	961	
,	CTAR	TARGETS BY GUN TYPES AND VICE-VENSA	4	662	
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3v1Tungaus	MAP 74/175 JPT=2 HUUNU=+=1/ FIN B.8 508	Ae/10/30.	30. 12.45.43
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016	4T [T5,41,1741, 12,41,12,41,15.0,31,15.0,41,12,31,12,31,12,31,12,57	4444	740 741 742
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825	146 TYPE'SX.*T CHAGGE, 40X,*PRUPELLANT MEIGHTS*//) 725 FORMAT[112,41,**X,33,75,22,2X,105,2) 726 FORMAT[ 13,*)])] ERNOR GUN TYPES EXCEED TABLE LIMIT IN M 1PJONLY FINST*,13,* TYPES USED FOR SUBSEQUENT CROSS-CHECKING*) 727 FORMAT[ 13,*)]) ERRUR UNDEFINED GUN ID*,45,		**************************************
<b>6</b> 3 0	1# FOW FURING 7:4.83) 12 FORMAT( 13,4)))) 11: FIRING P1.4.83) 12 FORMAT(//13,4)))) 13 FORMAT(//13,4)))) 14 FOR DEFINITION CARDS.** 17 FOR DEFINITION CARDS.** 18 FORMAT(//13,4); 19 FORM	SE KAP GUN KAP KAP	7765 766 768 768 768
835			7465 7465 7664 7669
0 1	ERROR DUPLICATE IDIFIRST OCCURRENCE USED MARNING EXTRANEOUS DATA STARTING IN CARE FIELDS.	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	770
845	MARNING DUP, PUINT: IDENTICAL COORDINATE	N N N N N N N N N N N N N N N N N N N	775 777 778
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855	741 FORMATITS ERRUM MI' GREATER THAN MAX CHARGE NO.F DEFMAP I CARD FUR FIRIYG PI.*	I A P	785 786

O 4 0	7 447 01 347 7 245	TATAING PT. * 1837 43 FURMARITS. EXCELD TABLE LING PTS. EXCELD TABLE LING O'ALT FIRST* 13.0 "SEO FUR SUISE VERT LAUSS CHECKING*)	ERRUR FIALIG PIS, EXCEED TABLE LIMIT IN MANAP	IG PTS, EXCE	KLUE IN C ED TABLE CHECKING	ARKNING LARGE MEIGHT VALUE IN DEF. CARD FURMAP AAP ERRUH FINING PIS. EKCEED TABLE LIMIT IN MANAP USEO FUN SUNSEJUENT LRUSS CHECKING*/) HAP		87 89 90		
		44 FORMAT(//13,*, END OF INPOT PHASE:*,15,* EFRUR/MARNING CONDITIMAD 10/5 DETECTED*) 45 FORMAT(/1x,*CHUSS-WEFEWERERERE:: TAMBETS HY FIMING POINTS 7 DAILY FIMIMAD 1 465*///	O OF INPUT PHA HENCE: TAMUET	SHY FIMING	EFRUR/HAR	PONING CONDIT		791 793 794		
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97.0	750 F 11 152 F	FURMAT(/IX,*CRUSSS=REFERENCE: GUNTTPES BY TARGETS) DAIL.  1.*PHUJECTILE CHARGE AEIGNT (LUS)*///  1.*PHUJECTILE CHARGE AEIGNT (LUS)*///  1.CRMAT  1.CMATAT  1.C/IX,*CRUSS=REFERENCE: GUN TYPES BY FIRING POINTS) DAILY	USS-KERERICE GONTYPES MARGE AEIGNI (LUS)*/// IX.*GUN IO*/IOX.7(*1AP IU FEMENCE: GUN TYPES BY FIR	PES BY TARC	SETS; 0A	DAILY *		0 00 0 00 0 40		
87.50 2.70 2.70 2.70 2.70 2.70 2.70 2.70 2.7	753 F 753 F 754 F	2.*PROPELLENT CHARGE MEIGHT (LRS)-V/// 1x,eGUN 10*110x7(FFFT 1 53 FORMAT(T3,* ERROR DUPLICATE 10, 1CHECKED FOR ERRORS DUPLICATE 10, 1CHECKED FOR ERRORS, BUT DITHERIJES IN-URED*) 54 FORMAT(T1.*.	#EIGHT (LRS)**///*  1x,*GUN 10*/10*,7(*FFT ID  *!)  RRUGH UUPLLICATE 10,CUORDINATES; DEF CAROS  BUT OTHERRISE [UAVRED.)  EDUNG WINDITERF ID, DIFFERDENT CORDINATES.	7/*FPT ID 7(*FPT ID CATE ID,CUG NORED#)	CEDENTES	*)) 3) DEF CARDS	2 2 7 7 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	€ 00 00 00 00 00 00 00 00 00 00 00 00 00		
0 89	755 F 756 F 756 F 757 F	11 MEATED AS SEPARATE ENTRY.") 55 FUNNAT (124, °CE 'ERATED ID = *,A5) 76 FUNNAT (173, °C. 'C. 'ERRO' - *, 177 FORNAT (173, °C. 'C. 'C. 'A3) 757 FORNAT (173, °C. 'C. 'C. 'C. 'A3)	NIR.*) NIR.*) LUC = *,A5) LHRCH*,[3,* NUNPOSITIVE CHARGE NOS, Excounaper,B) *,A5) ERRCH*,[3,* NUNPOSITIVE CHARGE NOS, Excounaper,B) *,A5)	* NUNPOSITI	VE CHARG	APPLE FEED		9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
885	900 900 900 14 000	13)	ERMOR 41 TIME FOR M	OH FINING PI.*, #3) RHOR MISSING DATA BASE FILE; EXECUING HE HIN MAPPING SUBPROGRAM IS *, F8.3	BASE FIL	EF EXECUTION		4 × 6 6 0		
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	SUBHUUTINE MAP	74/175 UF	UPIEZ KOUNUS+-+/	/*=		FTN 4.8	508	80/10/30, 12.45.43	12.45.43	PAGE	22
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J 342 344 28 [1474CK EXTTS] J 414 417 46 INSTACK EXITS] J 416 446 468 36 [14516K EXITS] II 5500 5712 128 [14517] ISOU 6712 126 [1719] IMPRINT 550 6712 126 [1719] IMPRINT 550 6712 126 [1719] IMPRINT 572444 10004	J 342 344 28 [1474CK EXTTS] J 414 417 44 INSTACK EXITS J 415 417 44 INSTACK EXITS J 416 417 44 INSTACK EXITS J 452 454 58 INSTACK EXITS II 550 557 28 INSTACK EXITS II 550 712 128 EXT REFS LENUTH WEMBERS - BIAS NAME (LENGTH) I 500 0 0 TXFPT (1500) 2 0 0 TXFPT (1500) 2 0 0 TXFPT (1500) 300 0 10 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0		274	277	97	INSTACK	EXITS					
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J 414 417 44 1051ACR EXTTS  J 452 454 264 1051ACR EXITS  IG 466 454 1051ACR EXITS  II 555 557 28 1051ACR EXITS  I 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	J 414 417 44 1 1/87 8CR EXTTS  15 456 466 55 57 28 1/87 8CR EXTTS  16 456 466 466 59 1/87 8CR EXTTS  17 555 557 28 1/87 8CR EXTTS  1 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		377	379	45	INSTACK	EXITS					
J 452 454 28 INSTACT EXITS  IG 466 46 39 INSTACT EXITS  I 705 712 128 EXITS  LENUTH MEMBERS - BIAS NAME(LENGTH)  15000 0 TXFPT (1500)  2 0 GARPT (1500)  2 0 GARPT (1500)  2 0 GARPT (1500)  2 0 GARPT (1500)  3 0 GARPT (1500)  5 0 GARPT (1500)	J 452 454 284 INSTACT EXITS  IG 466 406 39 INSTACT EXITS  I 705 712 129 EXT MEFS  LENGTH MEMBERS - BIAS NAME (LENGTH)  15000 0 TAFPT (1500)  15000 0 GTRFPT (1500)  1 RPRINT  15000 0 GTRFPT (1500)  2 GTRFPT (1500)  2 GTRFPT (1500)  1 RPRINT  1 PEED  1 PEED  2 O IUGUM (50)  300 0 IUGHT (300)		7.7	417	£	INSTACK	E x 1 1 3					
1	1		455	757	1. T.	INSTACK	EXITS					
			007	897	36	INSTACK	E x 1 T S					
705 712   128	105712   128 EXT NEFS   128   EXT NEFS   15000   15000   0 TXFPT (15000)   1 KPRINT   15000   0 TXFPT (15000)   1 KPRINT   15000   0 GTKPT (1500)		555	557	97	INSTACK	E K I T S					
LENGTH MEMBERS - BIAS NAME (LENGTH)  15000 0 TXFPT (15000)  15000 0 TXFPT (15000)  2 0 KAME (1)  1 PEED  LENGTH MEMBERS - BIAS VAME (LENGTH)  50 0 TOFFG (50)  300 0 TOFFG (50)  31738 9851	LENGTH MEMBERS - BIAS NAME (LENGTH)  15000 0 TAFPT (15000)  15000 0 GANC (1)  15000 0 CHECK (1)  LENGTH MEMBERS - BIAS NAME (LENGTH)  50 0 IU/FOC (50)  50 0 IU/FOC (50)  1 PEED  1 PEED  1 PEED  1 PEED  1 PEED  2 IU/FOC (50)  2 IU/FOC (50)  300 0 IU/FOC (50)  50 0 IU/FOC (50)		705	712	128		EXT HEFS					
15000 0 TAFPT (1500) 1 KPRINT 15000 0 CHER (1) 1 PEED 2 0 CHER (1) 1 PEED 2 CHER (1) 1 PEED 300 0 LIGHT (500) 300 0 LIGHT (500) 300 0 LIGHT (500) 300 0 LIGHT (500)	15000 0 TXFPT (1500)  2 0 KAPE (1)  15000 0 CHECK (1)  2 CHECK (1)  1 PLED  1 PLED  50 0 IUGUN (50)  50 0 IUFF (50)			5	MAN WALL	F (LEWGTH)						
15000 0 GIREPT (1500) 1 PRED 15000 0 GIREPT (15000) 1 PRED 15000 0 CHEED	15000 0 GIRFPT (1500)  LENGTH WEMBERS - BIAS VAME(LENGTH)  SO 0 IOCUM (50)  50 0 IOCUM (50)  50 0 IOFFT (500)  10FFT (500)  17H  231738 9851  COMMON LENGTH 72404B 30004			,	TXFPT	(15000)						
15000 0 GIMPT (1500)  LENGTH WEMBERS - BLAS VAME(LENGTH)  50 0 IUGUM (50)  50 0 IUFFT (500)  10 IUFFT (500)	15000 0 GIXPT (1500) 1 PEED  LENGTH WEMRENS - 81AS VAME(LENGTH)  50 0 10-00 (50)  50 0 10-00 (50)  50 0 10-00 (50)  10 10-00 (50)  10 10-00 (50)  10 10-00 (50)		~	•	744			SPRINT (1)				
LENGTH WEMBERS - BIAS VAME(LENGTH)  50 0 1000M (50)  50 0 107FG (50)  300 0 107FT (500)	LENGTH MEMBERS - 81AS MAME(LENGTH)  50 0 10/60M (50)  50 0 10/FFG (50)  300 0 10/FFT (300)  1TH 231738 9851		000		GIXFPT	(15000)		•				
11. SO	LENGTH 50 50 50 300 17H		2	0	CHECK	3						
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5 5 0 10186 T 300 0 10FFT ENGTH 231738 9651	6 50 0 TUTRG 1 300 0 TUTRG 1 300 0 TUFFT ENUTH 231738 9651 0 COMMON LENGTH 72464 30004				10004	(50)						
1 300 U 10FFT CALL 10F	1 300 U INFET ENUTH 231738 9851 0 COMMON LENGTH 724048 30004		3.5			(26)						
ENGTH 231738 O COMMON JENCTH 724444	ENGTH 231738 O COMMON LENGTH 724046 3		0.01		ILFFT	(300)						
ENGTH 231738 D COMMON LENGTH 75444	ENGTH 231738 D COMMON LENGTH 724646 3	1,411,5										
07-152 20-152	ON LENGTH 724045	100000	^	21724	. 500							
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PAGE

P0/10/30. 12.45.43

FTN 4.8 508

74/175 UPI=2 ROUND=+++/

SUBROUTINE MAP

	80=(WIVVI+HIVV2)/(PCI+PC2)	PEA01814	
7	2182   VEC	READT615	
•	C CORRECT THE PERCENTAGE		
	00 100 M=1,2	READTB17	
	(***C-1)-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
99	FOCUSE PEWV (J, 1, m)		
	GARGH PERV(J,S,R)		
		READTER Z	
	~	25 A D T B Z 4	
7.0			
	1F(x,EG,2,aND,J,L7,152)PAT10=R1		
	C 10 ON GRENTER (22)		
	TENTRE CANDOUGH CANDO	45 40 TB 28	
7.5	IF (A.E. 2. A.D. (J.LE. 222. AND. J. GE. 152))		
	1 9ATIO = (82-41) + (J-152) / 70.0 + 81		
	diredass exatio	READTB30	
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	IF (F1.LT.0) F1=0.		
	IF (81.LT.0.) 81.m0.		
	IF (GN1.LT.0.) GN1=0.		
92	PEx*(J,1,*)= F1/100.		
	PERV(J,2,K) = 01/100.		
	PERC(J. 3. 7)   GNI/100.		
	.00 (100F1-81-6N1)/100.		
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o <b>~</b>	C IF THE DATA IS NOT ALMEADY MEAD IN FUM USE IN POINT, THEN CALL SUB!	SUBROUTINE	
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	C IF GRID BOUNDARIES ANE MAT PREMENT INITIALIZED, COMPLAIN.		
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<b>52</b>	IF(80S) GC TO 10		
	ARITE (XPXI:17.5)		
	S FORMAT(* NO BELOTOS CALL BEFORE POINT CALL		
	S 100 P		
	C READ INPUT DIRECTIVE, SET DEFAULTS, IF NECESSARY	86 0183G	_
3.0	FACTURS, AND	DAY/NIGHT/BOTH	
	10 READ(MAHD, 700) X1, X2, X4, X3		
	C ERROR MESSAGE: ERRORMISSING INPUT DIRECTIVES JOH ABURTED		
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	C INVERSION FACTURS	P6×10 31	
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45	C DAY +/UR NIGHT CUDSILERED		
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40.0 F. WAST (72.115.*.....
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		ANGLE:=ANGLE*3.1416/180.0		
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	158	FIRMAT(1H , 18x, F10, 3, 70A1)		

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	Ü	SCALE IF MEASUREMENTS ARE IN METERS IF (METERS) LID = 1 CHATTERS LID = 1		PLGT 432
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275	635	<b>\$</b>	년 4조 보다 # HF-도 #	
ය 0	0 9 9 0	TI=(II=1)*LYSX*1)  MRTTE OUT #156/*1, ANGLE #EASUPEMENIS TO TAPE 55  MRTTE(IOUT,640)*X1,Y1,Z1,HT,ANGLE,ICI,K,8  FORMAT(AMTEXT,2X,5FA,3,12,2A10,2X,2MPL)  MRTTE OUT WUMPER UP PLOTS REGUESTED TO TAPE 55  MRTTE OUT WUMPER UP PLOTS		PLUT & & 47 PLUT & & 68 PLUT & & 49
24 80 10	641	FORMAT(ARCTER, 2X, 2M), 12, 3X, 11, 1X, 2MUF, 1X, 11)  ARITE(IOUT, 642) X2, Y1, Z1, HT, ANGLE, ICI, SCALE  FORWAT(AHTEXT, 2X, 5FR, 3, 12, 8MSCALE 1:, F7, 0, 2X, 741 INCH=)  APITE(IOUT, 643) FATTOR, WEASURE(LIO)	(=+)	
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Cee DLD SUBROUTINE CALL  Cee CALL MRAND(MREP,NVAR,IVAR,X,SD,IX,MEP,IPRNT)  Catl BAND(IX,FMX,RNCPT,NREP,REP)  Catl Band(IX,NRCPT,REP)  Catl Ban			DE100379	
Con NEW SUBPOUTINE CALL  CALL BAND(IX,FWX,RRCPT,NRFP,REP)  ConvERT WEAN AND SL  KEP=SDRREP+X  C XD)T=REP(1)  GU TO 110  150 VOUT=0  TOUT OF HUMES TPY AGAIN  C YDGT UUT OF HUMES TPY AGAIN  C YDGT UUT OF HUMES TPY AGAIN  C YDGT (IIM-IUT) TRIES; POINT FOR LUCATION (X,Y) OUT OF BOUNDS  C AFTER (IIM-IUT) TRIES; POINT IGNORED.  If (A,U)T,GT,LI")UT) TO 190  C ** OLD SUMROUTINE CALL		Cee OLD GUGROCTING CALL Ce cal NoerD(Nofo, Noer, Tver, X.90.1x.950, Tobal)	OF 100379	
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C x007=8FP(1) 60 TO 110 150 NOUT=0 100 TO 170 TO 100 100 TO 170 T				
XD)T=REP(1)  150 40UT-110  150 40UT-20(1)  TD)T=YD(1)  160 IF((YD)T_GE_YMIN)_AND_(YD)T_LE_YAAK))GU TO 180  C YDGT UNT OF BUUNS TPY AGAIN  40UT=YDUTH-11  C **ARRINGGFMERATE'S SCATTEM POINT FOR LUCCATION (X,Y) OUT OF BUUNDS  C AFTER (LIMING) TRIES; POINT IGNURED.  If (AUUT,GT_LIMING) TO 190  C ** OLD SURROUTIME CALL			06100379	
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150 YOUT=0 150 YOUT=0 150 YOUT=0 150 YOUT=0(1) 160 F((YOUT, GE, YMIN), AND. (YOUT, LE, YAAK)) GU TO 180 C YOUT OUT OF RUWES TPY AGAIN YOUT=YOUT OF RUWES TPY AGAIN C "MANAVING6FWETH! SCATTEW POINT FOW LUCATION (X,Y) OUT OF BOUNDS C AFTER (LIMIN) THES; POINT 1600HE0. If (YOUT, GT, LITT) UT) TO 190 C OLD SUMBOUTINE CALL		011010	SCATPL45	
ΥDUT=YO(1)  160 IF((YOUT.GE.YWIN).AND.(YOUT.LE.YAAK))GU TO 180  C YOUT OUT OF HUMINS TPY AGAIN  **OUT=YOUT+1  C **ARAYNGGENERALY SCATTEW POINT FOR LOCATION (X,Y) OUT OF BOUNDS  C AFER (LIWIUT) TOTES; POINT IGNORED.  If (**OUT.GT.LI")UT)GU TG 190  C ** OLD SURROUTIME CALL			SCATPL46	
160 IF ((YDOT, GE, "MIN), AND, (YDDI, LF, YAK)) GU TO 180 C YDOT DUT GULEUKS TPY AGAIN GUJTZHOUT+1 C "ARANINGGEMERATE" SCATTEM POINT FOR LOCATION (X,Y) DUT OF BOUNDS C AFTER (LIMINI) TPLES; POINT IGNOMED. IF (AJDI, GT, LIMINI) TO 190 C			SCATPL 47	
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Contents; w.i. Data bases and computational procedures,  $\sim$  v.2. BNoise v.2 computet program description and program listing.

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